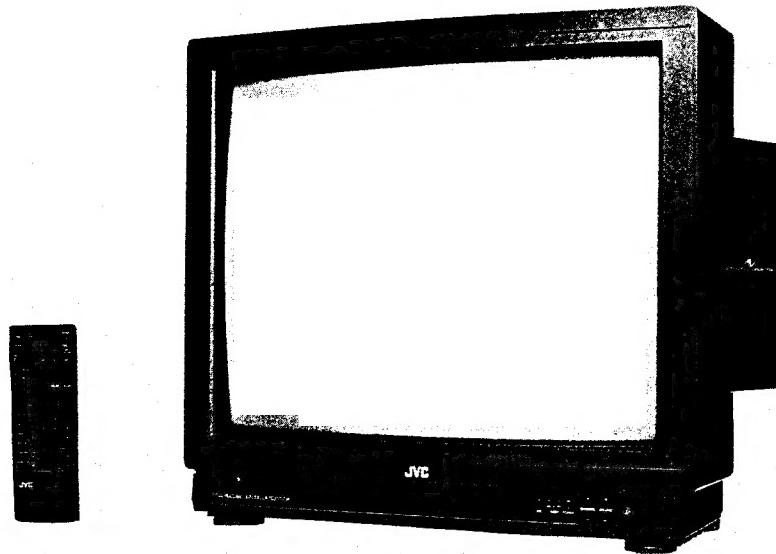


JVC**SERVICE MANUAL**MODEL **AV-S250EKT**

BASIC CHASSIS
BY-II



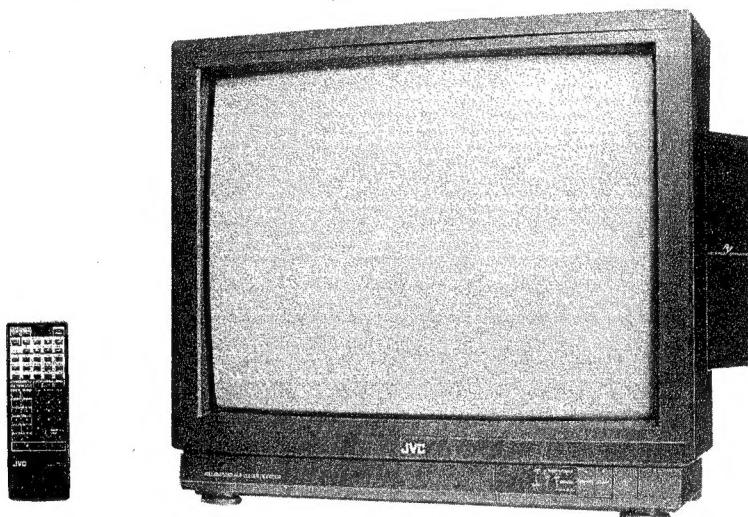
JVC

SERVICE MANUAL

25" COLOUR TV

MODEL AV-S250ENT

BASIC CHASSIS
BY-II



CONTENTS

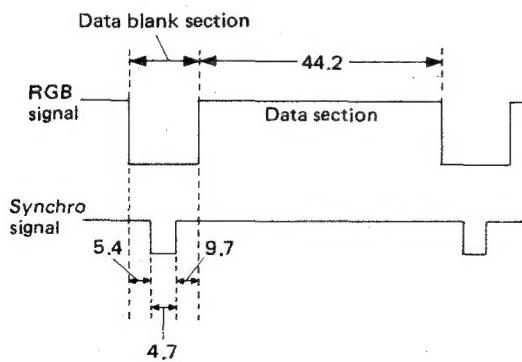
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SPECIFICATIONS

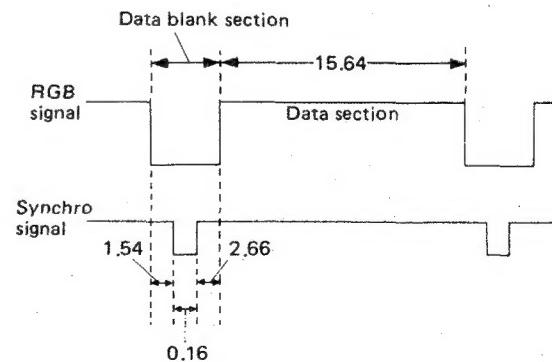
Dimension	65.8cm(W) x 44.8cm(D) x 51.2cm(H)
Weight	31.0kg
TV System & Colour System	
TV RF System	CCIR B/G
Colour System	PAL
Receiving Channel & Frequency	
VHF Ch. (VL: E ₂ ~ E ₄ , ITALY A ~ C)	47MHz ~ 68MHz
(VH: E ₅ ~ E ₁₂ , ITALY D ~ H)	174MHz ~ 230MHz
UHF Ch. (U: E ₂₁ ~ E ₆₉)	470MHz ~ 862MHz
CATV Receiving Channel & Frequency	
MID Band (X CH.~ Z CH)	68MHz ~ 89MHz
HYPER Band (S ₁ CH.~ S ₄₁ CH)	104MHz ~ 470MHz
Intermediate Frequency	
V. IF Carrier	38.9MHz
S. IF Carrier	33.4MHz (5.5MHz)
Colour Sub Carrier	PAL (4.43MHz)
ANT Input Impedance	75Ω Unbalanced
Power Input	220V AC, 50Hz
Power Consumption	150W (max.)/110W (avg.)
Picture Tube	63cm (25") In-Line Type Flat-Square Tube
Viewable Picture Size	36.2cm(H) x 47.6cm(W)
High Voltage	26.5kV ±1kV (at zero beam current)
Speaker	10cm Round Type, 8Ω x 2 3cm Round Type, 440Ω x 2
Audio Power Output	10W + 10W
21 Pin PERI Socket (Euro Connector)	
Video Input	1 Vp-p, 75Ω
Audio Input	500 mVrms (Standard), High Impedance
Video Output	1 Vp-p, 75Ω
Audio Output	500 mVrms (Standard), Low Impedance
R/G/B Input	700 mVp-p, 75Ω
S-Video Input	Y: 1 Vp-p Positive, 75Ω (Negative Sync. Provided) C: 0.3 Vp-p (Burst Signal), 75Ω
Audio External Input (RCA Pin Jack)	500mVrms, High Impedance
TV Audio External Output (RCA Pin Jack)	920mVrms, Low Impedance
External Speaker Terminal	8Ω x 2
Tube	1
IC	53 (In TV), 1 (In Remocon.)
Transistor	172 (In TV), 2 (In Remocon.)

Recommend input signal (21 Pin PERI Socket)

H. SYNC period (μ sec.)



V. SYNC period (m sec.)



(Design and specifications subject to change without notice)

SAFETY PRECAUTION

1. The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (Δ) on the parts list in Service manual.** The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual many create shock, fire, or other hazards.
4. **Don't short between the LIVE side ground and NEUTRAL side grounding or EARTH side ground when repairing.**
Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE (—) side GND, the NEUTRAL (---) side GND and EARTH (⊕) side GND. Don't short between the LIVE side GND and NEUTRAL side GND or EARTH side GND and never measure with a measuring apparatus (oscilloscope etc.) the LIVE side GND and NEUTRAL side GND or EARTH side GND at the same time.
If above note will not be kept, a fuse or any parts will be broken.
5. If any repair has been made to the chassis, it is recommended that the B₁ setting should be checked or adjusted (See ADJUSTMENT OF B₁ POWER SUPPLY).
6. The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.
7. Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10KΩ 2W resistor to the anode button.
8. When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.
9. **Isolation Check (Safety for Electrical Shock Hazard)**
After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screwheads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

(1) **Dielectric Strength Test**

The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 3,000V AC (r.m.s.) for a period of one second.

Withstand a voltage of 1,100V AC (r.m.s.) to an appliance rated up to 120V, and 3,000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.

This method of test requires a test equipment not generally found in the service trade.

(2) **Leakage Current Check**

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).

• **Alternate Check Method**

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.).

Measure the AC voltage across the resistor with the AC voltmeter.

Move the resistor connection to each exposed metal part particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.35V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).

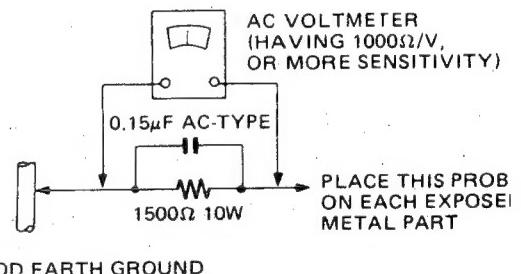


Fig. A

FEATURES

1. Adoption of PERI SOCKET with PERI Circuit.
2. Adoption of Module board with highly simplified circuit structure.
3. Newly incorporated is an OFF-TIMER with functions of max. 2-hour time setting in 30-min. units and of time balance indication.
4. An ON-TIMER also offers max. 24-hour time setting in 1-hour units plus time balance indicating function.
5. Multifunctional remote-controlling system enables controlling from a location away from the device of ON-TIMER, OFF-TIMER, ON-SCREEN, POWER, PRESET, VTR and others.
6. With STEREO Multi-surround system.
7. V. HOLD and H. HOLD are deleted as a result of employment of IC (IC201) with built-in deflection circuit that adopts the countdown method for V./H. OSC.
8. A sound multiplex circuit is contained which enables reception of sound multiplex broadcasts (UK DIGITAL SOUND).
9. (Hyper) tuner compatible with CATV.
10. The PLL synthesizer formula is employed for the S. SELECT circuit of the tuner.
11. The TELETEXT function is built in.

OUTLINE

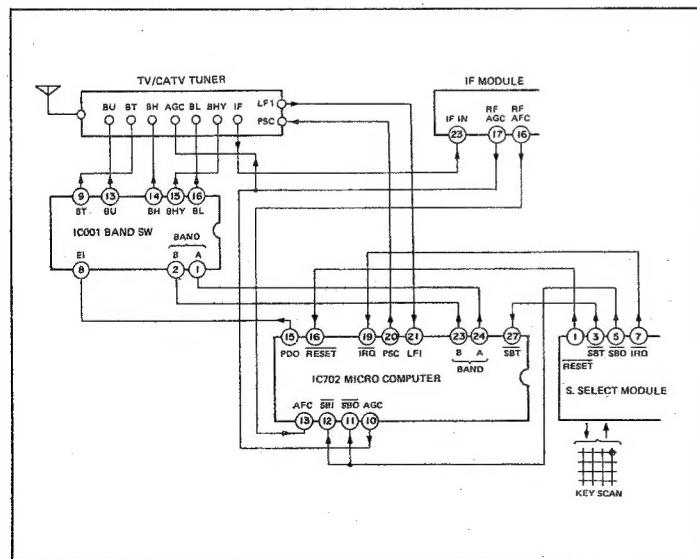
- THIS CHASSIS CONFIGURATION FOR THIS EQUIPMENT COMPRIMES ABOUT 6 GENERAL BOARDS and 6 MOODULE BOARDS. THEIR CONTENTS ARE AS FOLLOWS:

GENERAL BOARD	MODULE BOARD
1. SIGNAL PC BOARD ASS'Y 2. DEF. & POWER PC BOARD ASS'Y 3. CRT SOCKET PC BOARD ASS'Y 4. A/V TERMINAL PC BOARD ASS'Y 5. LINE FILTER PC BOARD ASS'Y 6. DIGITAL SOUND PC BOARD ASS'Y	1. IF MODULE 2. STATION SELECT MODULE 3. PERI MODULE 4. TELETEXT MODULE 5. RGB SWITCH MODULE 6. D.L. APACON MODULE

• OUTLINE OF S. SELECT CIRCUIT OF FREQUENCY SYNTHESIZER

1. 4 bit microcomputer for frequency synthesizer tuner
2. 4 bit A/D converter is built in
3. Adoption of the Pulse Swallow process (with PLL built in) allows the AFT (Auto Fine Tuning) function
4. Program memory (ROM) 8 bit x 2.048 steps
5. Data memory (RAM) 4 bit x 96 words

Block Diagram

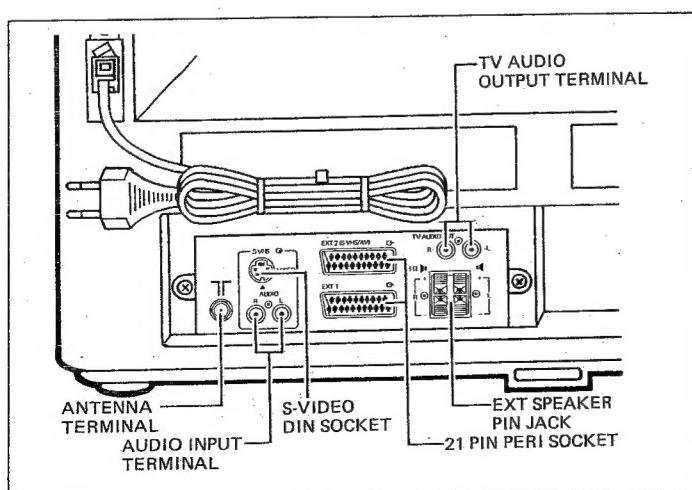
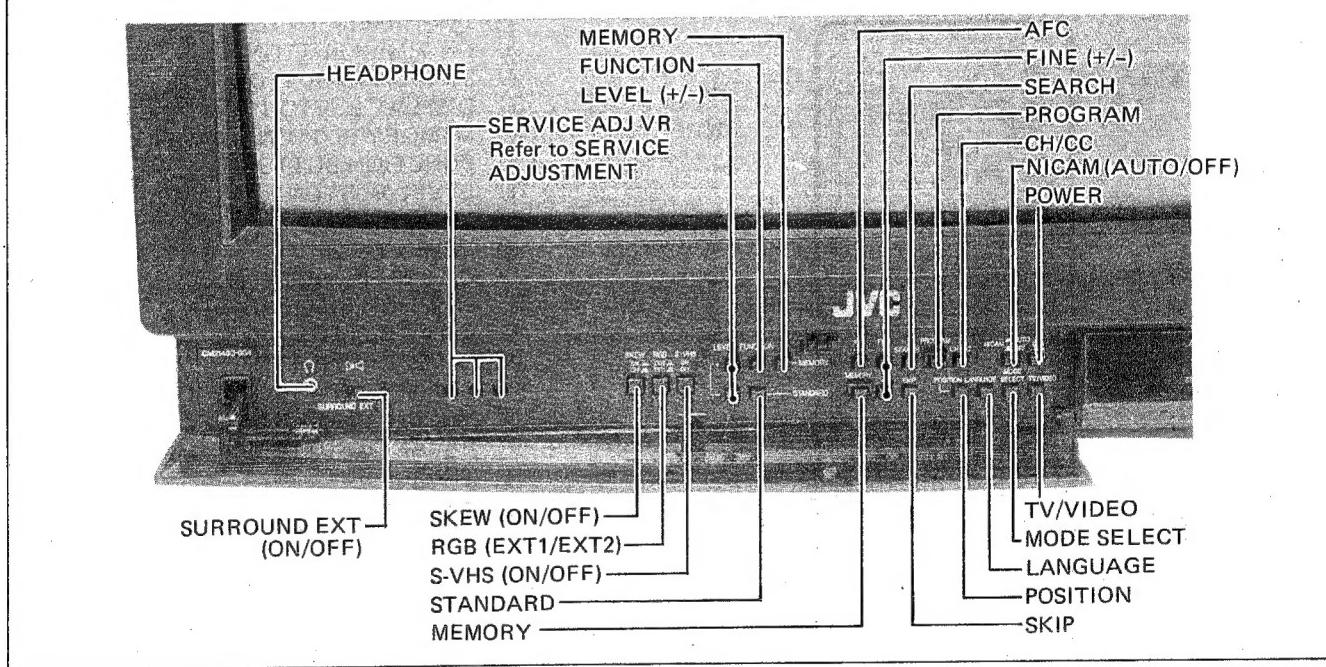
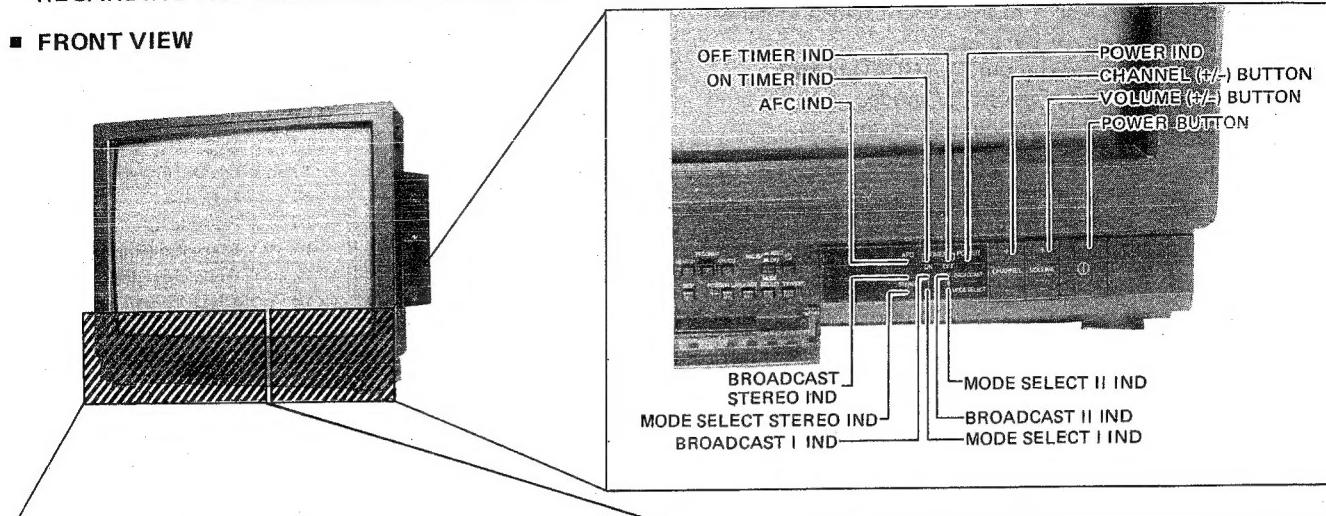


The PLL and state control of this equipment comprise the combination of the band switch-over/microcomputer/S. SELECT module circuits and control the S. SELECT circuit, ON SCREEN, volume control, etc.

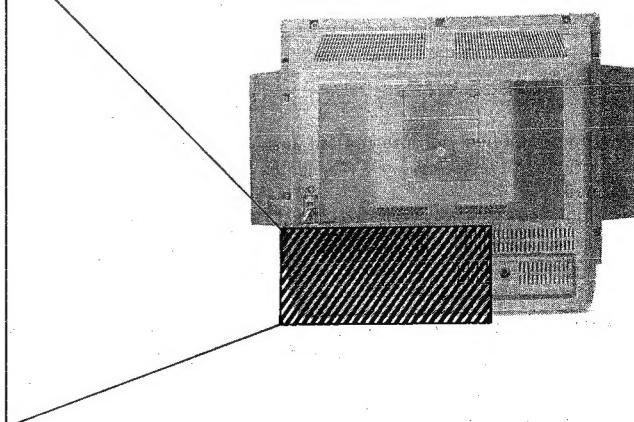
FUNCTIONS

* REGARDING THE OPERATING METHOD, REFER TO THE INST. BOOK

■ FRONT VIEW



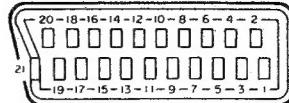
■ BACK VIEW



■ 21-PIN PERITELEVISION (SCART) SOCKET (EURO CONNECTOR)

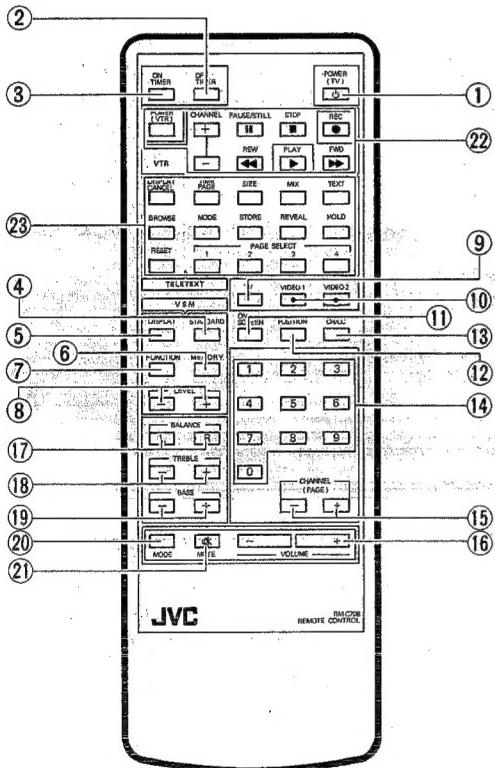
- This connector is used to input the RGB signals, to input and output the video/audio signals, and also to input the control signals. Connect it to equipment which matches the signal arrangement of the pins.
- Select the input signal using the TV/VIDEO button. When RGB signal is input, set to TV mode.
- A TV broadcast signal is continuously output.

• Pin assignment



Pin No.	Signal	Pin No.	Signal
1	Audio output	12	N.C.
2	Audio input	13	GND, for red
3	Audio output	14	N.C.
4	GND, for audio	15	Red input
5	GND, for blue	16	Blanking (Rapid SW)
6	Audio input	17	GND, for video
7	Blue input	18	GND, for blanking
8	Slow SW.	19	Video output
9	GND, for green	20	Video input
10	N.C.	21	GND.
11	Green input		

■ REMOTE CONTROL



- ① POWER BUTTON
 ② OFF TIMER BUTTON
 ③ ON TIMER BUTTON
 ④ STANDARD BUTTON
 ⑤ DISPLAY BUTTON
 ⑥ MEMORY BUTTON
 ⑦ FUNCTION BUTTON
 ⑧ LEVEL BUTTON
 ⑨ TV BUTTON
 ⑩ VIDEO 1 & 2
 ⑪ ON SCREEN BUTTON
 ⑫ POSITION BUTTON
 ⑬ CH/CC BUTTON
 ⑭ DIRECT CH BUTTON
 ⑮ CHANNEL (PAGE) BUTTON
 ⑯ VOLUME BUTTON
 ⑰ BALANCE BUTTON
 ⑱ TREBLE BUTTON
 ⑲ BASS BUTTON
 ⑳ MODE BUTTON
 ㉑ MUTE BUTTON
 ㉒ VTR CONTROL BUTTON
 ㉓ TELETEXT BUTTON
 TEXT, MIX, SIZE, TIME,
 PAGE, DISPLAY CANCEL,
 HOLD, REVEAL, STORE,
 MODE, BROWSE, RESET,
 PAGE SELECT-1, 2, 3, 4

● OPERABLE VTRs

With the supplied Remote control unit, some of the functions of the following VTRs can be remotely controlled:

Before start operation, be sure to turn the power of the VTR on.

For detailed operation, refer to the VTR instruction Book.

Note: Place the VTR so that it is within the operation range of the Remote Control unit.

OPERABLE VTRs (JVC)

HR-D455	HR-D250
HR-D565	HR-D566
HR-D725	HR-D157MS
HR-D158MS	HR-D257MS
HR-D170	HR-D180
HR-D370	HR-D470
HR-D755	HR-S5000

HOW TO REMOVE FOR SERVICE

■ REMOVING THE REAR COVER

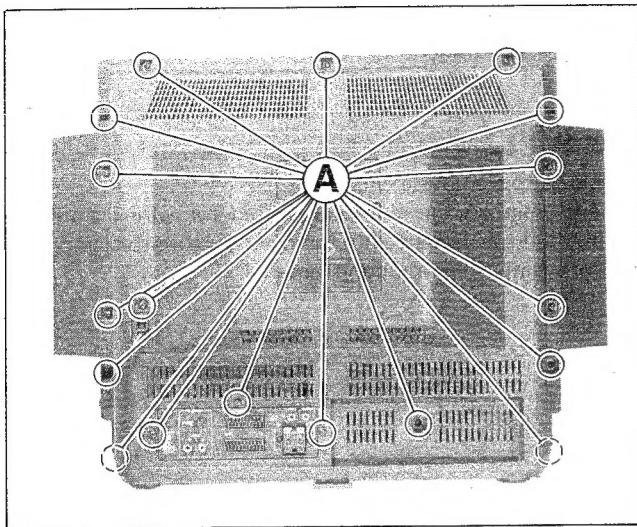


Fig. A

1. Unplug the power supply cord and remove the eighteen screws marked (A) shown in Fig. A, then remove the rear cover.

■ REMOVING THE SIGNAL & DEF. POWER BOARD

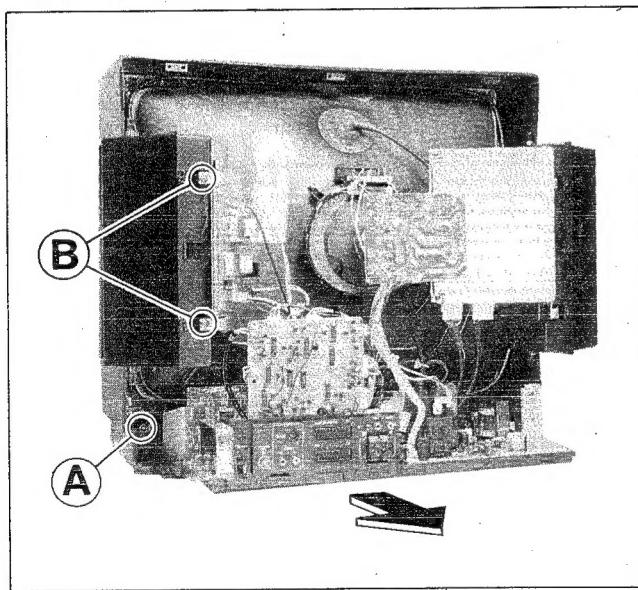


Fig. B

- * After removing the rear cover.
- 1. Loosen the screw marked (A) shown in Fig. B.
- 2. Then grip both sides of the chassis and draw it out to remove the rear cover. (Fig. B)
- * When conducting a check with power supplied, be sure to confirm that the CRT earth wire is connected to the CRT socket board.

■ REMOVING THE LINE FILTER BOARD

1. It can be removed with two screws (B) shown in Fig. B.

■ REMOVING THE DIGITAL SOUND BOARD

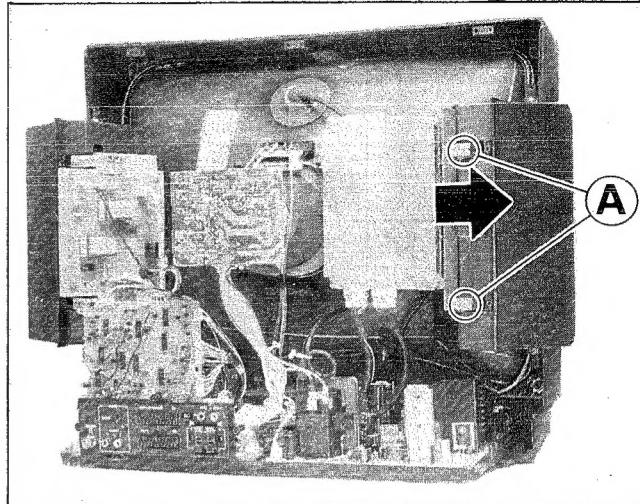


Fig. C

1. Remove the two screws (A) shown in Fig. C.
2. Then shift the PC Board in the arrow direction to remove it.

■ REMOVING THE AV TERMINAL ASS'Y

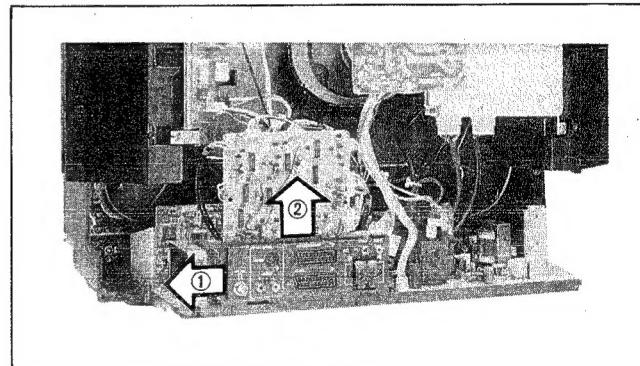


Fig. D

As shown in Fig. D, slide the AV TERMINAL ASS'Y in the allow direction (①) along the rail and stop it at the place where the rail widens out. Then the AV TERMINAL ASS'Y can be removed easily by pulling it up. (in the allow direction (②)).

■ REMOVING THE SPEAKER BOX ASS'Y & COVER

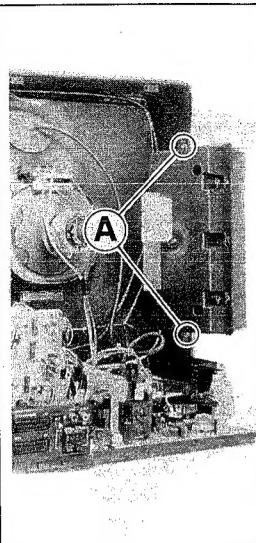


Fig. E

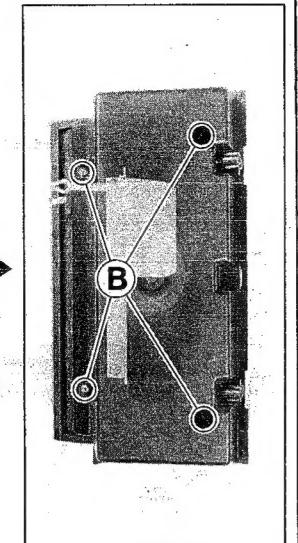


Fig. F

1. Remove the two screws **A** shown in Fig. E.
2. Remove the four screws **B** shown in Fig. F to replace the speaker cover.
3. Remove the speaker cover on the opposite side through a similar procedure.

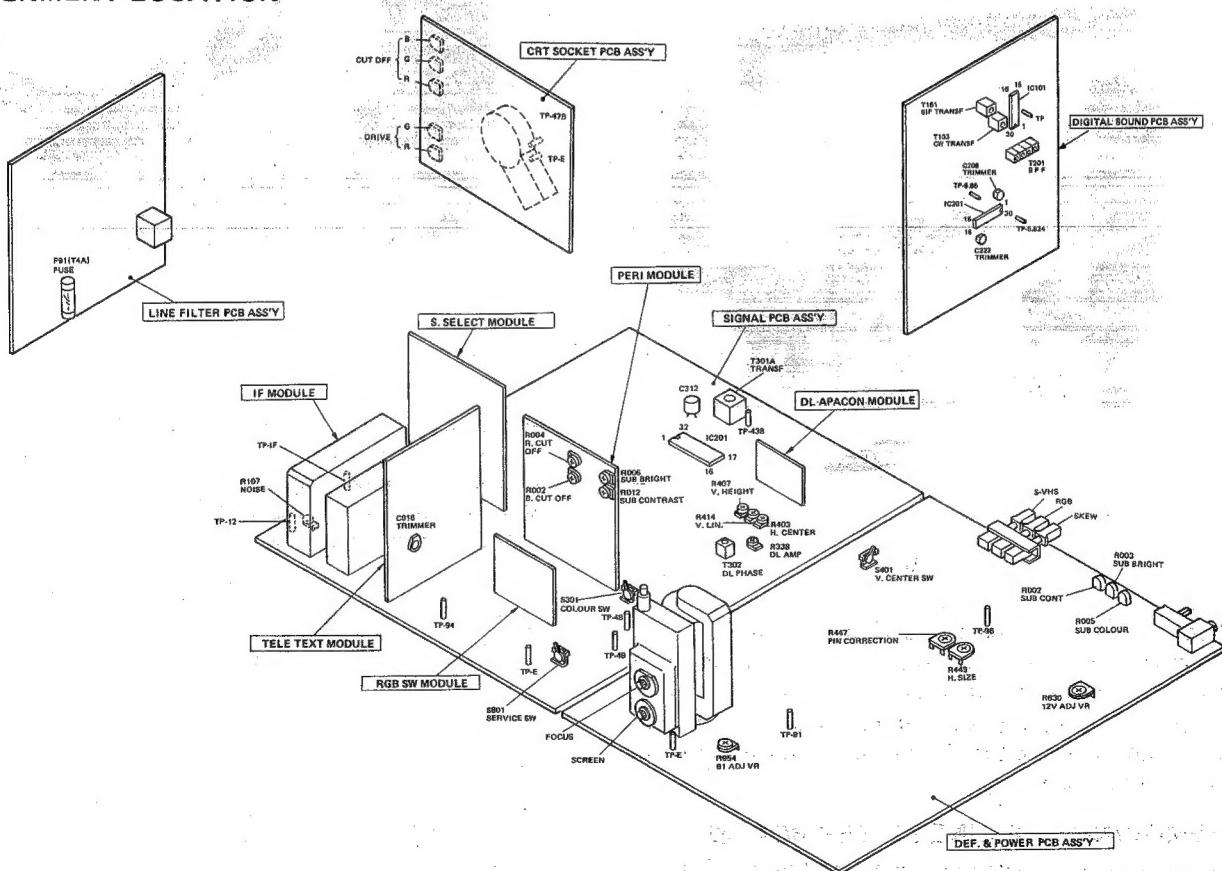
■ WIRE CLAMPING AND TYING BAND

1. Be sure to clamp the wire.
2. Never remove the tying band used for wire clamping. Should it be inadvertently removed, be sure to clamp the wire again, using insulating material.

SERVICE ADJUSTMENTS

- As for the test points and respective volume adjusting positions, refer to the "ALIGNMENT LOCATION" on the schematic diagram and the SERVICE ADJUSTMENT in the given herein.

ALIGNMENT LOCATION



DEF & POWER PC BOARD CIRCUIT

■ POWER SUPPLY

1. SUB power voltage (12V DC)

Adjust the 12V ADJ VR to obtain 12V DC between TP-96 (+ side of C618) and TP-E(\neq).

2. B1 voltage (148V DC)

Adjust the B1 ADJ VR to obtain 148V DC between TP-91 and TP-E(\neq).

■ SUB COLOUR

1. Receive a PAL colour bar signal.

2. Push the standard button and set the Video control to the standard position.

3. Adjust the SUB COLOUR VR to obtain natural colour density.

■ SUB BRIGHT & SUB CONTRAST

1. Push the standard button and set the Video control to the standard position.

2. Adjust the SUB BRIGHT VR and SUB CONTRAST VR until an ideal picture is obtained.

■ V. CENTER

The screen can be scrolled upward or downward by changing over the V. CENTER switch.

■ H. SIZE & PIN CORRECTION

1. Adjust the SIDE PIN CORRECTION VR to obtain the least deformation of the screen.

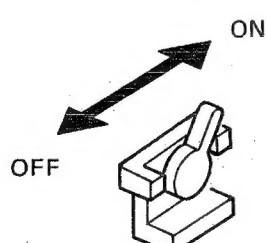
2. Adjust the H. SIZE VR to move the screen horizontally and obtain the optimum screen with the whole image.

■ FOCUS

Adjust the FOCUS VR for best overall definition and picture detail at normal brightness and contrast.

SIGNAL PC BOARD CIRCUIT

■ COLOUR SW. POSITION



ON : COLOUR Position
OFF : MONO Position

■ NOISE (RF A.G.C. Delay)

This control is set at the factory and rarely requires adjustment. If a snowy picture appears on a medium- to weak signal station, adjust the NOISE VR.

1. Turn NOISE VR fully counterclockwise (or clockwise) to obtain maximum noise in picture.
2. Slowly turn NOISE VR clockwise (or counterclockwise) until snow or noise in picture disappears.

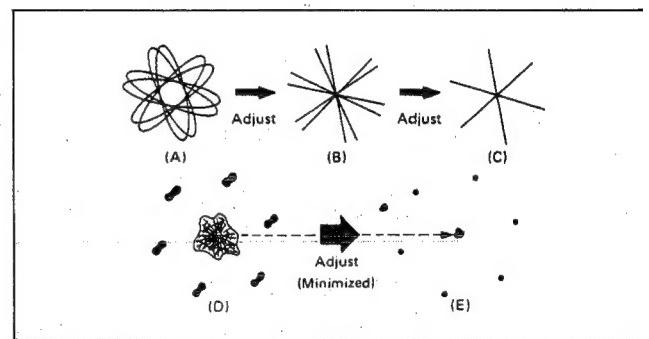
■ NOTE

Check operation on strong channels. If overloading occurs (bending, poor colour, loss of colour sync. etc.) make compromise adjustment.

■ CHROMA CIRCUIT

■ PAL

1. Receive a PAL colour bar signal and set the oscilloscope at the X-Y mode and then connect CH-1 (X-axis) to TP-49 and CH-2 (Y-axis) to TP-48 respectively.
2. Short the C312 capacitor with a jumper wire and connect pin (24) and pin (26) of IC201 with 8.2 k Ω resistor. See Lissajous' Fig. (A).
3. Adjust the SUB COLOUR VR so that the figure is not saturated.
4. Adjust the DL AMP VR (R338) so that the figure is altered to (B) from (A).
5. Adjust the DL P TRANSF (T302) so that the figure is altered to (C) from (B).
6. Repeat adjustments 4. and 5. more than twice.
7. Remove the shorted jumper wire and 8.2 k Ω resistor from pin (24) and pin (26) of IC201.
8. Then adjust the T301A TRANSF (T301A: Burst cleaning) so that the figure is minimized to (E) from (D).



■ VERTICAL HEIGHT & LINEARITY

1. Set colour bar generator to crosshatch or a pattern with which symmetry can be checked.
2. Reduce the vertical size with the VERTICAL HEIGHT VR.
3. Adjust the vertical symmetry with the VERTICAL LINEARITY VR.
4. Readjust the VERTICAL HEIGHT so that the picture extends to normal size.

■ H. CENTER

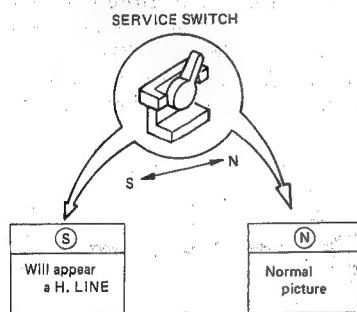
1. The screen can be scrolled leftward or rightward by adjusting the H. CENTER VR.

WHITE BALANCE ADJUSTMENT (Black and White Tracking)

1. Display a monochrome pattern.
2. Set the RED and GREEN DRIVE VRs for their mechanical center.
3. Turn the RED, GREEN and BLUE CUT-OFF VRs and the SCREEN VR fully counterclockwise.
4. Display a horizontal line. (Select the CUT-OFF SERVICE SWITCH from N to S and a HORIZONTAL LINE will appear.)
5. Turn SCREEN VR slowly clockwise until a very faint horizontal line appears.
6. Turn the CUT-OFF VR of the color which has appeared first, clockwise by about 10° and then adjust the SCREEN VR again so that the color may shine faintly.
7. Turn the other color CUT-OFF VRs slowly clockwise until a reasonable white line appears.
8. Return the monochrome pattern. (When returning a monochrome pattern select the CUT-OFF SERVICE SWITCH from S to N and a monochrome pattern will appear.)
9. Adjust the RED and GREEN DRIVE VRs for best white highlights.

• HORIZONTAL LINE

HOW TO USE THE CUT-OFF SERVICE SWITCH



PERI MODULE CIRCUIT

■ PERI SUB BRIGHT & SUB CONTRAST

While connecting PERI input in the A/V TERMINAL Board.

1. Push the standard button and set the Video control to the standard position.
2. Then align the PERI SUB BRIGHT VR & SUB CONTRAST VR until an ideal Picture is obtained.

■ PERI B. CUT OFF & R. CUT OFF

While connecting PERI input, adjust the BLUE CUT OFF VR AND RED CUT OFF VR in the PERI circuit until a best White picture is obtained.

TELETEXT MODULE CIRCUIT

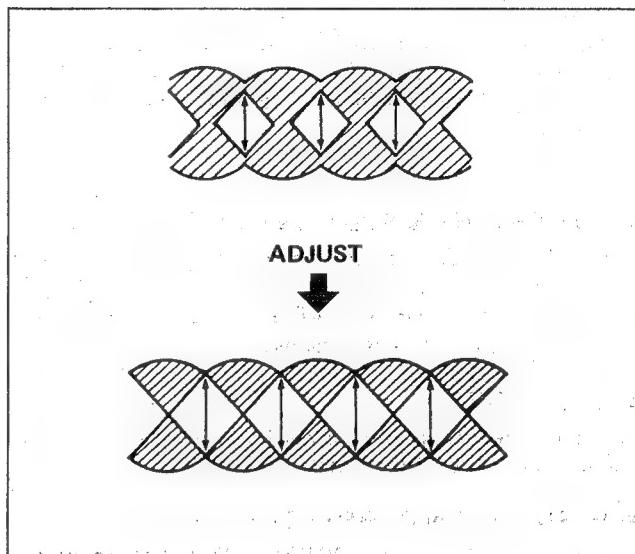
■ ON SCREEN (TELETEXT)

1. Set to the mix mode (by remote control).
2. Display characters on the screen.
3. Adjust the position of characters so that they will stay around the center of the screen and will not flow (C016).

DIGITAL SOUND PC BOARD CIRCUIT

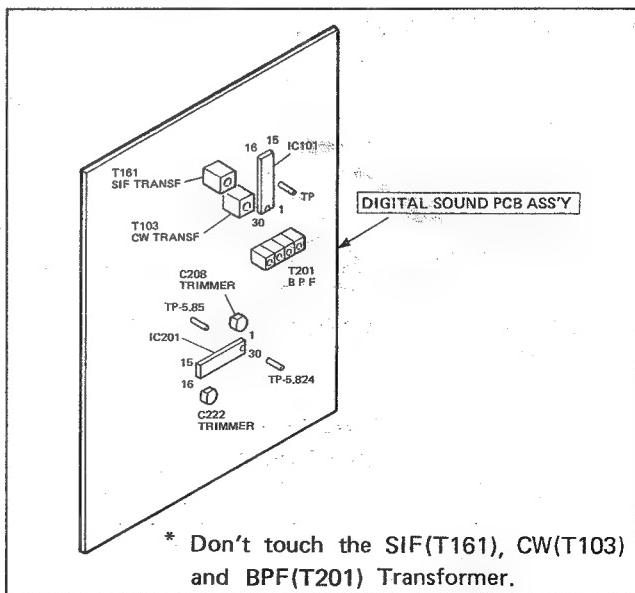
■ ADJUSTMENT OF EYE PATTERN

1. Receive a digital sound signal.
2. Connect the oscilloscope to pin 20 of IC201.
3. By observing the waveform, adjust the trimmer capacitor (C208) so that the EYE PATTERN is open to its maximum.
4. As for pin 19 of IC201, confirm the waveform by adjusting the TRIMMER capacitor (C208), if necessary.



■ ADJUSTMENT OF 5.824MHz

1. Receive a digital sound signal.
2. Connect pin 12 of IC201 to pin 21 using a jumper wire.
3. Then connect pin 4 of IC201 to pin 5 using a capacitor (0.001μF).
4. Connect the frequency counter to TP-5.824 and adjust the TRIMMER capacitor (C222) so that the frequency becomes 5.824MHz ±20Hz.



REPLACEMENT PARTS LIST

* The module PC boards marked with Δ are supplied as assemblies.

■ MAIN REPLACEMENT PARTS LIST

1/3	SYMBOL NO.	Δ	PART NO.	PART NAME	REMARKS
CRT & TUNER	TU1001	Δ	CE41363-002 BK7362EP-A04 Δ A59EAK01X01	DEG COIL V/U/CATV TUNER PICTURE TUBE	L01 V01 Within Def Yoke PC Magnet, Wedge Ass'y
VARIABLE RESISTOR	R1107 R1338 R1403 R1407 R1414		QVPA601-223A QVPA601-102A QVPA801-203M QVPA801-201M QVPA801-503M	V R (NOISE) V R (DL AMP) V R (H. CENTER) TRIM R (V. HEIGHT) TRIM R (V. LIN)	22 k Ω B 1 k Ω B 20 k Ω B 200 Ω B 50 k Ω B
	R2002 R2003 R2005 R2447 R2449		QVPA603-103A QVPA603-223A QVPA603-223A QVPA804-203M QVPA804-502M	V R (SUB CONTRAST) V R (SUB BRIGHT) V R (SUB COLOR) V R (SIDE PIN CORRECTION) V R (H. SIZE)	10 k Ω B 22 k Ω B 22 k Ω B 20 k Ω B 5 k Ω B
	R2630 R2954 R3113 R3114 R3115		QVPA803-201M QVPE804-102H QVPA803-502M QVPA803-502M QVPA803-502M	V R (12V ADJ.) V R (B1 ADJ.) V R (R CUT OFF) V R (G CUT OFF) V R (B CUT OFF)	200 Ω B 1 k Ω B 5 k Ω B 5 k Ω B 5 k Ω B
	R3119 R3120		QVPA803-201M QVPA803-201M	V R (R DRIVE) V R (G DRIVE)	200 Ω B 200 Ω B
TRANSFORMER	T2501 T2601 T2901 T2902	Δ	CE40895-00A CE41479-00C CE41476-00A CE41491-00C CE40361-00J	H DRIVE TRANSF. H. V. TRANSF. SW TRANSF SW TRANSF DRIVE TRANSF.	T2551
DIODE	D1001 D1402 D1504 D1506 D1602		MA4051 (L) -Y MA4120 (M) -Y MA4075 (H) -Y MA4030 (M) -Y RD33E (B1)	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE	
	D1603 D1718 D1751 D1752 D1753		RD33E (B1) MA4051 (L) -Y GL-9PR26 GL-9PG26 GL8HS26T	ZENER DIODE ZENER DIODE L. E. D. L. E. D. L. E. D.	Main Power On Timer Off Timer
	D1754 D1756 D1757 D1758 D1759 D1760 D1761 D1781		GL-9PG26 GL-9PR26 GL-9PG26 GL8HS26T GL-9PR26 GL8HS26T GL-9PG26 PD49PI	L. E. D. L. E. D. L. E. D. L. E. D. L. E. D. L. E. D. L. E. D. PHOTO DIODE	AFC Stereo II (Bilingual) I (Mono) Stereo I II II
	D1810 D2401 D2531 D2532 D2553		RD5. 1ES (B2) MA4300-Y MA4056 (M) -Y MA4062 (H) -Y U19E-FK	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE SI. DIODE	
	D2554 D2555 D2572 D2573 D2575	Δ	U19E-FK DFA1A4-4 MA4068 (N) V1-Y MA4091 (M) -Y MA4062 (M) -Y	SI. DIODE SI. DIODE ZENER DIODE ZENER DIODE ZENER DIODE	
	D2576 D2607		RD15E (B) RD9. 1E (B)	ZENER DIODE ZENER DIODE	

SYMBOL NO.	△	PART NO.	PART. NAME	REMARKS
DIODE D2609 D2614 D2901 D2902 D2958		RD30E (B2) RD36E (B3) D3SBA60 SF5J42 MA4150 (M) -Y	ZENER DIODE ZENER DIODE DIODE BRIDGE THYRISTOR ZENER DIODE	
D2959 D6901		RD5.6E (B2) RD11E (B2) -Y	ZENER DIODE ZENER DIODE	
TRANSISTOR Q3104 Q3105 Q3106		2SC2068-LB 2SC2068-LB 2SC2068-LB	S.I. TRANSISTOR S.I. TRANSISTOR S.I. TRANSISTOR	R. Out G. Out B. Out
IC IC1001 IC1201 IC1601 IC1602 IC1701		UPC1486C M52016SP TA7764P TA8200AH AN78L05	I. C. (M) I. C. (M) I. C. I. C. (M) I. C. (M)	
IC1702 IC1781 IC2401 IC2551 IC2552		MN15221JMN UPC1373HA (MS) UPC1498H UPC7812HF UPC7805HF	I. C. I. C. (M) I. C. I. C. I. C.	
IC2601 IC2951 IC7001 IC7002 IC7003		STR10006-A AN5900 TC4066BP TC4066BP TC4066BP	I. C. (H) I. C. (M) I. C. (M) I. C. (M) I. C. (M)	
IC7101 IC7102 IC7103 IC7104 IC7201		TC4066BP TC4066BP TC4066BP TC4066BP TC4066BP	I. C. (M) I. C. (M) I. C. (M) I. C. (M) I. C. (M)	
IC7202		TC4066BP	I. C. (M)	
OTHERS		SBY-F002A-MU4 SBY-M005A (U) SBY-P006A (U) SBY-T002A (U) SBY-R002A (U)	I-F MODULE S. SELECT MODULE PERI MODULE TELETEXT MODULE RGB SWITCH MODULE	◎ ◎ ◎ ◎ ◎
	△	SBY-D001A (U) CM33567-A0B QMP4090-200K CM41678-B01 CM11406-B0D-E CM32865-B01	D.L APACON MODULE KNOB BASE ASSY POWER CORD PUSH KNOB CABINET ASSY CONTROL KNOB	◎ Include Power Knob Ch Knob, Vol Knob (x5)
		CM33485-A01 CM11468-D0A EAS-10P432C EAS-3FP10R CM33501-A0C-V0	CONTROL KNOB SP BOX ASSY CONE SPEAKER CONE SPEAKER AV TERMINAL	Include Antenna Jack
CP2601 CP2901 F9091	△	CM11468-C0B CM42758-003 ICP-N38-Y ICP-N38-Y QMF51E2-4ROS	SP BOX ASSY KNOB IC PROTECTER IC PROTECTER FUSE	(x2) 4.0A
J2001 J7001		AX49607-004 CE40529-006	HEADPHONE JACK SCART CONNECTOR	Peri 1

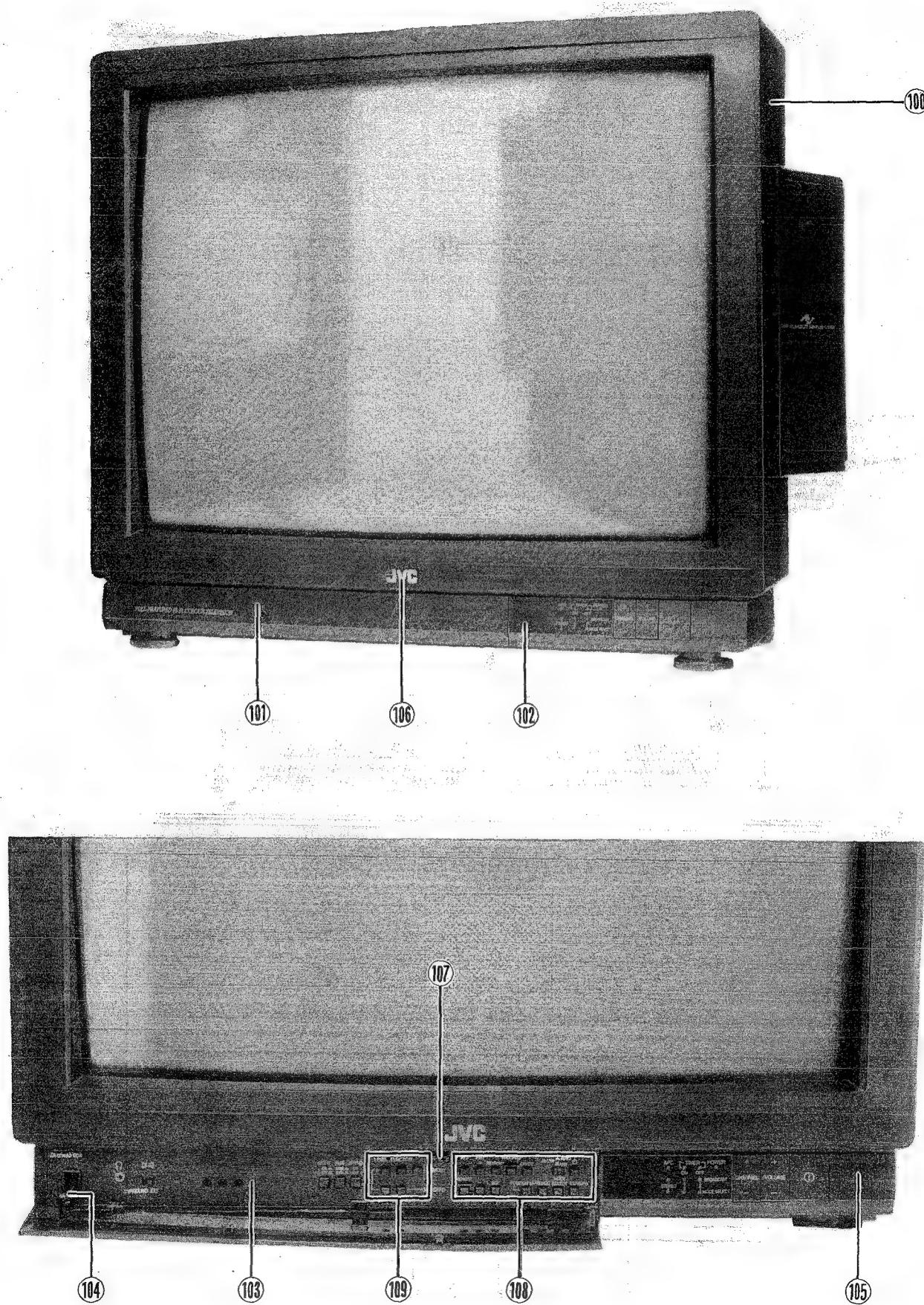
3/3

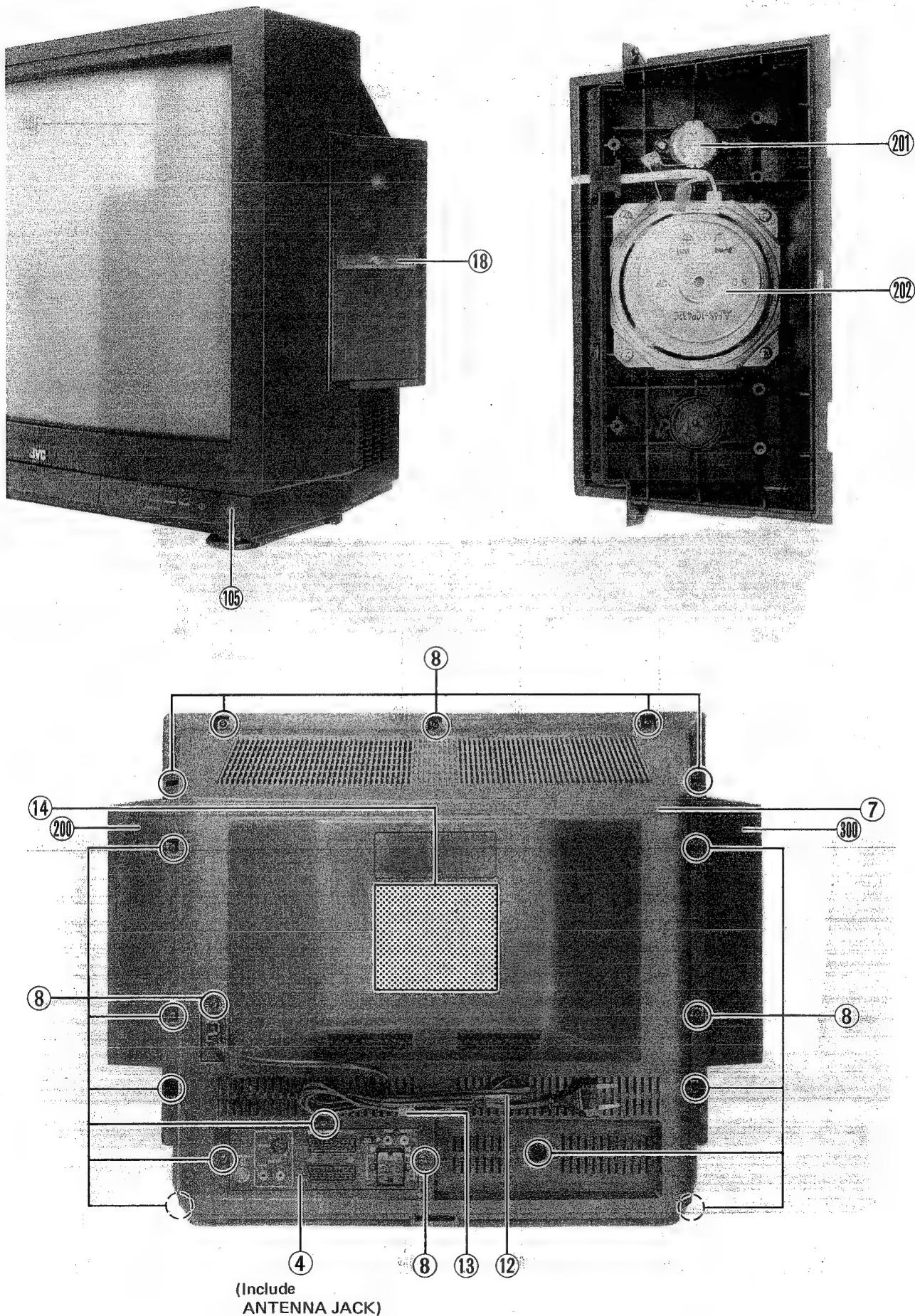
SYMBOL NO.	△	PART NO.	PART NAME	REMARKS
OTHERS				
J 7002		CE40529-006	SCART CONNECTOR	Peri 2
J 7003		QMD4A04-001	DIN CONNECTOR	S In
J 7004		CEMN021-001	PIN JACK	Audio In
J 7005		CEMN021-001	PIN JACK	TV Audio Out
J 7006		CEMT005-001	SP TERMINAL	SP Out
R 2571	△	QRH017J-4R7M	F R	4. 7 Ω 1W J
R 2611	△	QRZ0054-8R2M	F R	8. 2 Ω 1/4W J
R 2623	△	QRZ0054-2R2M	F R	2. 2 Ω 1/4W J
R 2632	△	QRZ0054-2R2M	F R	2. 2 Ω 1/4W J
R 2633	△	QRZ0054-2R2M	F R	2. 2 Ω 1/4W J
R 2959	△	QRZ0055-2R2M	F R	2. 2 Ω 1/2W J
R 6500	△	QRZ0054-470M	F R	47 Ω 1/4W J
S 1301		QSL4A13-C02	LEVER SWITCH	Color
S 1751		QSP2C22-C01	PUSH SWITCH	Normal→Auto
S 1753		QSP1A11-C10	PUSH SWITCH	TV/Video
S 1754		QSP1A11-C10	PUSH SWITCH	I/II
S 1755		QSP1A11-C10	PUSH SWITCH	Power
S 1756		QSP1A11-C10	PUSH SWITCH	Program
S 1757		QSP1A11-C10	PUSH SWITCH	Memory
S 1758		QSP1A11-C10	PUSH SWITCH	Fine△
S 1759		QSP1A11-C10	PUSH SWITCH	Fine▽
S 1760		QSP1A11-C10	PUSH SWITCH	CH/CATV
S 1761		QSP1A11-C10	PUSH SWITCH	Position
S 1762		QSP1A11-C10	PUSH SWITCH	Search
S 1763		QSP1A11-C10	PUSH SWITCH	AFC
S 1765		QSP1A11-C10	PUSH SWITCH	Language
S 1767		QSP1A11-C10	PUSH SWITCH	Skip
S 1768		QSP1A11-C10	PUSH SWITCH	CH△
S 1769		QSP1A11-C10	PUSH SWITCH	CH▽
S 1770		QSP1A11-C10	PUSH SWITCH	Vol△
S 1771		QSP1A11-C10	PUSH SWITCH	Vol▽
S 1801		QSL4A13-C02	LEVER SWITCH	Service
S 1901		QSP4D21-C06	PUSH SWITCH	Power
S 2001		QST3321-C01	PUSH SWITCH	Skew, RGB, S-VHS
S 2003		QSS4C22-C04	SLIDE SWITCH	Speaker
S 2006		QSP1A11-C10	PUSH SWITCH	Standard
S 2007		QSP1A11-C10	PUSH SWITCH	Level△
S 2008		QSP1A11-C10	PUSH SWITCH	Level▽
S 2009		QSP1A11-C10	PUSH SWITCH	Function
S 2010		QSP1A11-C10	PUSH SWITCH	Memory
S 2401		QSL4A13-C02	LEVER SWITCH	V. Center
TH2441		ERT-D2ZHL503S	THERMISTOR	
TH9091	△	A76038-T	POSISTOR	or A76038
X 1301		CE41115-001	CRYSTAL	
X 1501		CSB500F9	CRYSTAL	
X 1701		CE40842-001	CRYSTAL	

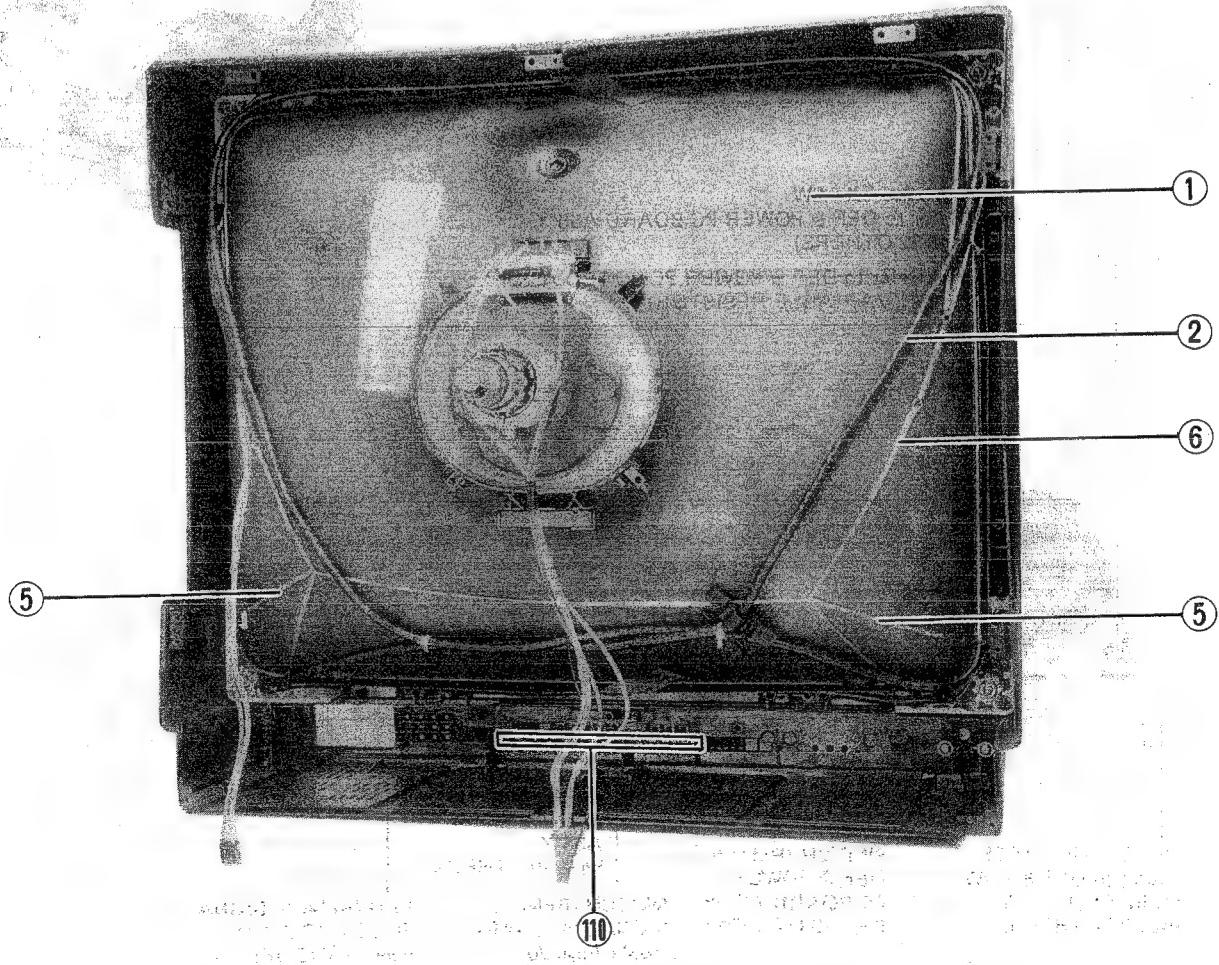
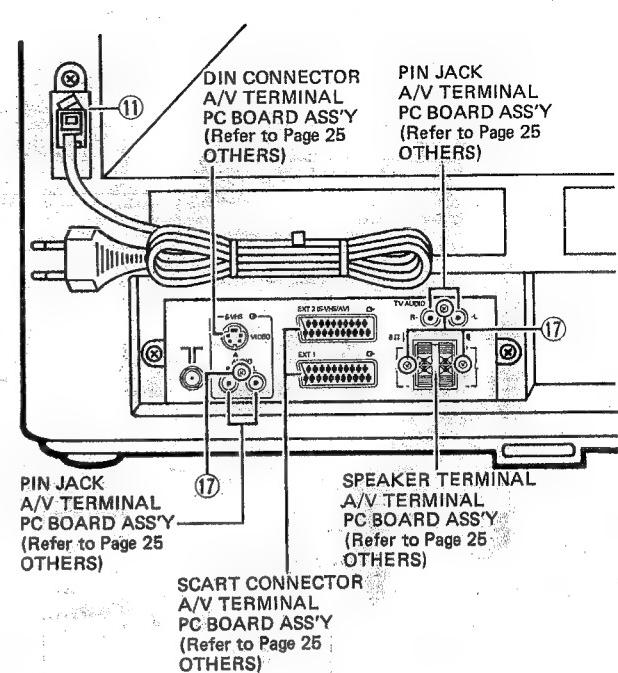
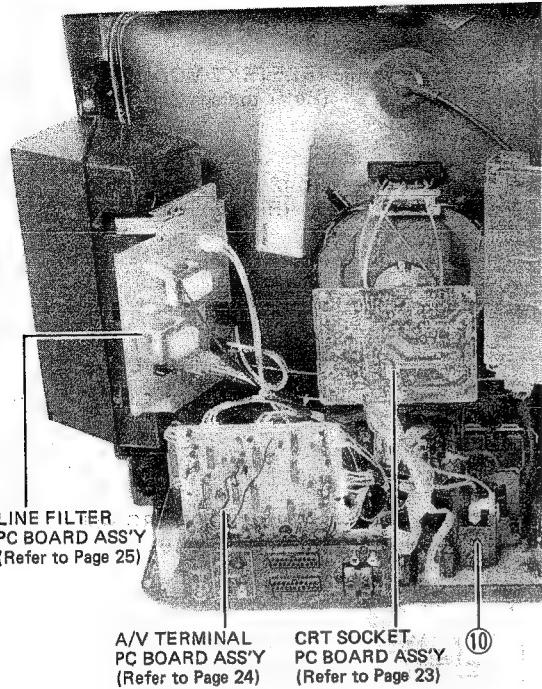
■ CHASSIS & CABINET PARTS LIST

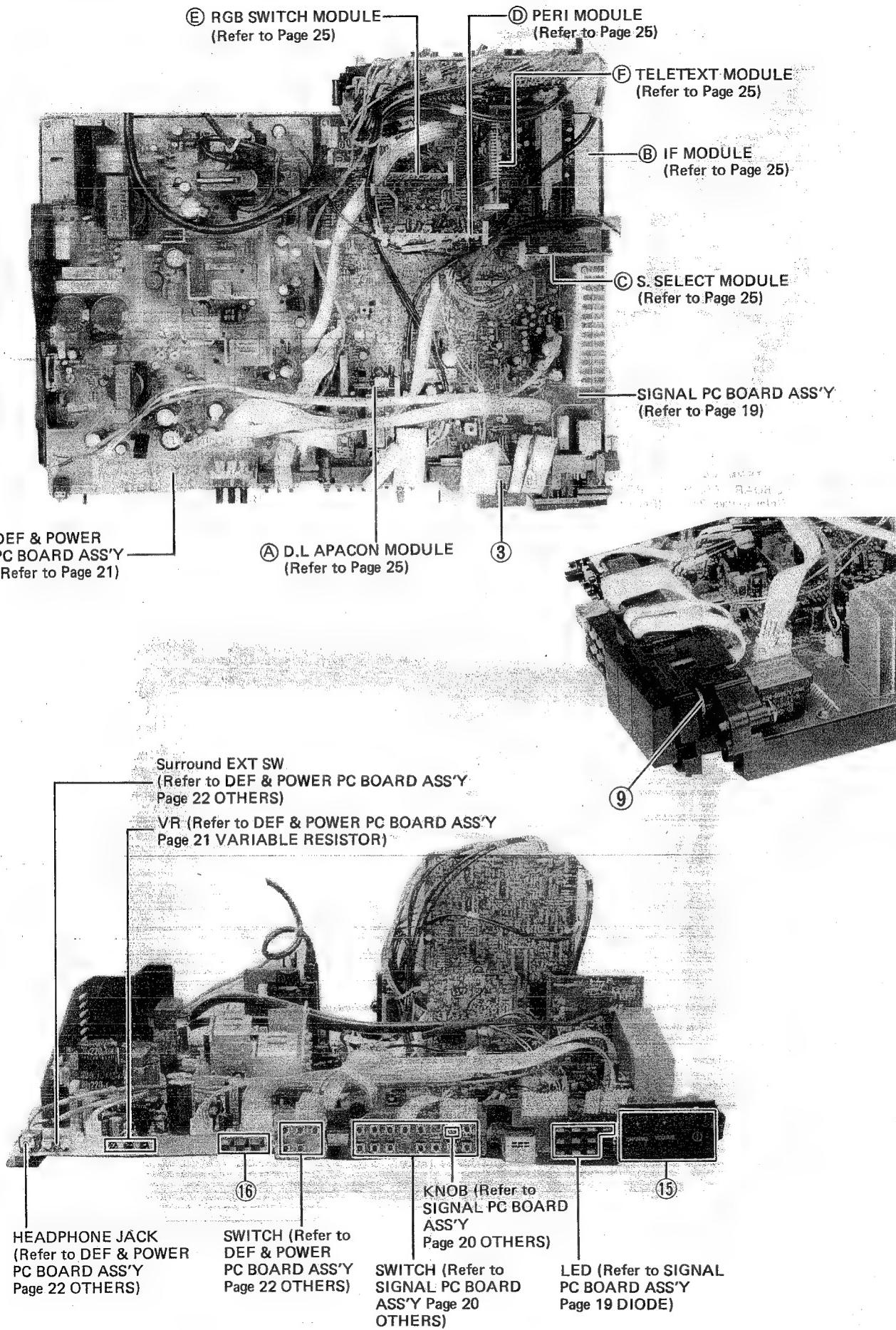
VIEW NO.	PART NO.	PART NAME	REMARKS
1	A59EAK01X01	PICTURE TUBE	
2	CE41363-002	DEG COIL	
3	CM21450-C01-E	CONTROL BASE	
4	CM33501-A0C-V0	AV TERMINAL	
5	CH41987-00C	BRAIDED SUB ASSY	V01 Within Def Yoke PC Magnet, Wedge Ass'y L01 Include Antenna Jack (x2)
6	CH30342-00G	BRAIDED ASSY	
7	CM11409-A01-E	REAR COVER	
8	GBSA4016M	TAP SCREW	
9	CM41677-A01	KNOB CAP	
10	CE41479-00C	H. V. TRANSF.	T2551
11	CM21165-001-V0	POWER CORD CLAMP	
12	QMP4090-200K	POWER CORD	
13	N47971	CORD CLAMP	
14	CM21117-006 (R)	ROLL R LABEL	
15	CM33567-A0B	KNOB BASE ASSY	Include Power Knob, Ch Knob, Vol Knob
16	CM41678-B01	PUSH KNOB	(x3)
17	SBSB3012M	TAP SCREW	(x4) Pin Jack, SP Terminal
18	CM32861-001	PLATE	
100	CM11406-B0D-E	CABINET ASSY	Include No. 101-110
101	CM11472-B02	DOOR	
102	CM32857-B04	INDICATOR WINDOW	
103	CM21453-004	CONTROL SHEET	
104	CM32812-A0A	DUMPER ASSY	
105	CM32858-A01-E	SIDE PANEL	
106	CM43094-002	JVC MARK	
107	CM45436-00A	DOOR LATCH	
108	CM32865-B01	CONTROL KNOB	
109	CM33485-A01	CONTROL KNOB	
110	CM44258-00A	PLASTIC RIVET	(x6)
200	CM11468-D0A	SP BOX ASSY	Include No. 201-202
201	EAS-3FP10R	CONE SPEAKER	
202	EAS-10P432C	CONE SPEAKER	
300	CM11468-C0B	SP BOX ASSY	Include No. 201-202

■ EXPLODED VIEW









■ PC BOARD PARTS LIST
■ SIGNAL PC BOARD ASS'Y (SBY-1304A(U))

1/4

SYMBOL NO.	PART NO.	PART NAME	REMARKS
VARIABLE RESISTOR	QVPA601-223A QVPA601-102A QVPA801-203M QVPA801-201M QVPA801-503M	V R (NOISE) V R (DL AMP) V R (H. CENTER) TRIM R (V. HEIGHT) TRIM R (V. LIN)	2.2kΩ B 1kΩ B 20kΩ B 200Ω B 50kΩ B
RESISTOR	R1004 R1865	OM R OM R	1.2Ω Q 270Ω Q
CAPACITOR	C1001 C1003 C1006 C1105 C1205	QEM611EK-106MZ QEM611EK-106MZ QEM611EK-106MZ QEB611HM-114MZ QEN611HM-174Z	E CAP. E CAP. E CAP. E CAP. BP E CAP.
	C1214 C1309 C1310 C1312 C1401	QEN611HM-335Z QFV71HJ-10MZ QEN611HM-05Z QEN611HM-105Z QFV71HJ-22MZ	BP E CAP. BP E CAP. BP E CAP. BP E CAP. TF CAP.
	C1402 C1404 C1405 C1412 C1414	QEE61CK-225BZ QEBS1HM-224MZ QEM51HK-415M QEM51CM-471M QFV71HJ-271MZ	TAN. CAP. E CAP. B CAP. E CAP. TF CAP.
	C1416 C1608 C1605 C1613 C1628	QEM51HK-475M QFV71HJ-10MZ QFV71HJ-333MZ QFV71HJ-334MZ QFV71HJ-12MZ	E CAP. TF CAP. TF CAP. TF CAP. TF CAP.
	C1629 C1716 C1781 C1782 C1783	QFV71HJ-124MZ QETC1CM-108Z QFV71HJ-338MZ QEKC1CM-106GMZ QEKC1VM-475GMZ	TF CAP. E CAP. TF CAP. E CAP. TF CAP.
	C1784 C1785 C1820 C1821 C1822	QEKC1CM-106GMZ QEKC1CM-336MZ QEN61HM-105Z QEN61HM-105Z QEN61HM-105Z	E CAP. E CAP. BP E CAP. BP E CAP. BP E CAP.
TRANSFORMER	T1301A T1302 T1781	CE40359 CE40396-A01 CE40304-001	IDENT TRANSF DL P TRANSF BP TRANSF
COIL	L1001 L1002 L1003 L1004 L1107	CELP006-5R6Z CELP006-5R6Z CELP006-5R6Z CELP006-120Z CELP006-8R2Z	PEAKING COIL PEAKING COIL PEAKING COIL PEAKING COIL PEAKING COIL
DIODE	L1202 L1203 L1301 L1303	CELP006-390Z CE40041-390 CELP006-120Z CELP006-8R2Z	3.9μH 5.6μH 5.6μH 1.2μH 8.2μH

SYMBOL NO.	SUPER	PART NO.	PART NAME	REMARKS
2/4	DIODE	ISS133-Y ISS133-Y ISS133-Y ISS133-Y	SI. DIODE SI. DIODE SI. DIODE SI. DIODE	
	DIODE	D1308 D1309 D1310 D1402 D1502	ISS133-Y ISS133-Y MA4120 (MD) - Y ISS133-Y	ZENER DIODE SI. DIODE
	DIODE	D1503 D1504 D1505 D1506 D1507	ISS133-Y MA4075 (H) - Y MA4030 (M) - Y ISS133-Y	SI. DIODE SI. DIODE SI. DIODE SI. DIODE
	DIODE	D1508 D1509 D1601 D1602 D1603	ISS133-Y ISS133-Y ISS133-Y RD33E (B1) RD33E (B1)	SI. DIODE SI. DIODE SI. DIODE ZENER DIODE ZENER DIODE
	DIODE	D1609 D1701 D1702 D1704 D1705	ISS133-Y ISS133-Y ISS133-Y ISS133-Y ISS133-Y	SI. DIODE SI. DIODE SI. DIODE SI. DIODE SI. DIODE
	DIODE	D1706 D1707 D1708 D1709 D1710	ISS133-Y ISS133-Y ISS133-Y ISS133-Y ISS133-Y	SI. DIODE SI. DIODE SI. DIODE SI. DIODE SI. DIODE
	DIODE	D1718 D1719 D1751 D1752 D1753	ISS133-Y GL-9PG26 GL-9PR26 GL-9PG26 GL-9PG26	SI. DIODE L.E. D. L.E. D. L.E. D. L.E. D.
	AF C	D1754 D1756 D1757 D1758 D1759	GL-9PG26 GL-9PR26 GL-9PG26 GL-9HS26T GL-9PR26	L.E. D. L.E. D. L.E. D. L.E. D. L.E. D.
	Stereo	D1760 D1761 D1762 D1763 D1764	GL-9HS26T GL-9PG26 PD49P1 W06A-4 RD5.1ES (B2)	GL-9PG26 L.E. D. L.E. D. L.E. D. L.E. D.
	Main Power	D1765 D1766 D1767 D1768 D1769	GL-9HS26T GL-9PG26 GL-9PG26 GL-9PG26 GL-9PG26	GL-9PG26 L.E. D. L.E. D. L.E. D. L.E. D.
	On Timer	D1770 D1771 D1772 D1773 D1774	ISS133-Y ISS133-Y ISS133-Y ISS133-Y ISS133-Y	SI. DIODE SI. DIODE SI. DIODE SI. DIODE SI. DIODE
	Off Timer	D1775 D1776 D1777 D1778 D1779	ISS133-Y ISS133-Y ISS133-Y ISS133-Y ISS133-Y	SI. DIODE SI. DIODE SI. DIODE SI. DIODE SI. DIODE
		D1780 D1781 D1782 D1783 D1784	ISS133-Y ISS133-Y ISS133-Y ISS133-Y ISS133-Y	SI. DIODE SI. DIODE SI. DIODE SI. DIODE SI. DIODE
		D1785 D1786 D1787 D1788 D1789	ISS133-Y ISS133-Y ISS133-Y ISS133-Y ISS133-Y	SI. DIODE SI. DIODE SI. DIODE SI. DIODE SI. DIODE
		D1790 D1791 D1792 D1793 D1794	ISS133-Y ISS133-Y ISS133-Y ISS133-Y ISS133-Y	SI. DIODE SI. DIODE SI. DIODE SI. DIODE SI. DIODE
		D1795 D1796 D1797 D1798 D1799	ISS133-Y ISS133-Y ISS133-Y ISS133-Y ISS133-Y	SI. DIODE SI. DIODE SI. DIODE SI. DIODE SI. DIODE
		D1799 D1800 D1801 D1802 D1803	ISS133-Y ISS133-Y ISS133-Y ISS133-Y ISS133-Y	SI. DIODE SI. DIODE SI. DIODE SI. DIODE SI. DIODE
		D1804 D1805 D1806 D1807 D1808	ISS133-Y ISS133-Y ISS133-Y ISS133-Y ISS133-Y	SI. DIODE SI. DIODE SI. DIODE SI. DIODE SI. DIODE
		D1809 D1810 D1811	ISS133-Y RD5.1ES (B2) ISS133	SI. DIODE ZENER DIODE SI. DIODE
	TRANSISTOR	Q1201 Q1203 Q1206 Q1303 Q1305	2SC1815 (Y, GR) Y 2SC1815 (Y, GR) Y 2SC1815 (Y, GR) Y 2SA1015 (Y, GR) Y 2SC1815 (BL) - Y	SI. TRANSISTOR SI. TRANSISTOR SI. TRANSISTOR SI. TRANSISTOR SI. TRANSISTOR
		Q1306 Q1501 Q1502 Q1503 Q1504	2SC1815 (Y, GR) Y 2SC1815 (Y, GR) Y 2SC1815 (Y, GR) Y 2SC1815 (Y, GR) Y 2SC1815 (Y, GR) Y	SI. TRANSISTOR SI. TRANSISTOR SI. TRANSISTOR SI. TRANSISTOR SI. TRANSISTOR
		Q1505 Q1506	2SK301 (P) - Y 2SC1815 (Y, GR) Y	F E T SI. TRANSISTOR

SYMBOL NO.	PART NO.	PART NAME	REMARKS
TRANSISTOR Q1507 Q1601 Q1602 Q1701 Q1706	2SC1815 (Y, GR) Y 2SA1015 (Y, GR) Y 2SA1015 (Y, GR) Y 2SC1740S (Q, R) Y 2SC1815 (Y, GR) Y	S.I. TRANSISTOR S.I. TRANSISTOR S.I. TRANSISTOR S.I. TRANSISTOR S.I. TRANSISTOR	
Q1801 Q1802 Q1803 Q1804 Q1805	2SA673 (C) -Y 2SA1015 (Y, GR) Y 2SC1815 (Y) -Y 2SC1815 (Y) -Y 2SC1815 (Y) -Y	TRANSISTOR S.I. TRANSISTOR S.I. TRANSISTOR S.I. TRANSISTOR S.I. TRANSISTOR	
Q1807 Q1808 Q1809 Q1810 Q1811	2SA1015 (Y, GR) Y 2SA1015 (Y, GR) Y 2SA1015 (Y, GR) Y 2SA1015 (Y, GR) Y 2SC1815 (Y, GR) Y	S.I. TRANSISTOR S.I. TRANSISTOR S.I. TRANSISTOR S.I. TRANSISTOR S.I. TRANSISTOR	
Q1812 Q1813 Q1814 Q1815 Q1816	2SC1815 (Y, GR) Y 2SC1815 (Y, GR) Y 2SA1015 (Y, GR) Y 2SA1015 (Y, GR) Y UPC1486C	S.I. TRANSISTOR S.I. TRANSISTOR S.I. TRANSISTOR S.I. TRANSISTOR I. C. (M)	
IC IC1001 IC1201 IC1601 IC1602 IC1701	M52016SP TA7764P TA8200AH AN78L05 MN15221JMN UPC1373HA (MS)	I. C. (M) I. C. (M) I. C. (M) I. C. (M) I. C. (M)	
OTHERS	SBY-F002A-MU4 SBY-M005A (U) SBY-P008A (U) SBY-T002A (U) SBY-R002A (U)	I.F. MODULE S. SELECT MODULE PERI MODULE TELETEXT MODULE RGB SWITCH MODUL	
DL1201 DL1301 S1301	CM42758-003 CE41407-001 CE41489-001 QSL4A13-C02	D. LAPACON MODUL KNOB DELAY LINE 1H DELAY LINE LEVER SWITCH	
S1751 S1753 S1754 S1755 S1756 S1757 S1758	QSP2C22-C01 QSP1A11-C10 QSP1A11-C10 QSP1A11-C10 QSP1A11-C10 QSP1A11-C10 QSP1A11-C10	PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH	
S1759 S1760 S1761 S1762 S1763	QSP1A11-C10 QSP1A11-C10 QSP1A11-C10 QSP1A11-C10 QSP1A11-C10	PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH	
S1765 S1767 S1768 S1769 S1770	QSP1A11-C10 QSP1A11-C10 QSP1A11-C10 QSP1A11-C10 QSP1A11-C10	PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH	
S1771 S1801	QSP1A11-C10 QSL4A13-C02	PUSH SWITCH LEVER SWITCH	

SYMBOL NO.	PART NO.	PART NAME	REMARKS
OTHERS Δ	S1901 TU1001 X1301 X1501 X1701	QSP4D21-C06 BK7362EP-A04 CE41115-001 CSB600F9 CE40842-001	PUSH SWITCH V/F/CATV TUNER CRYSTAL RESO CRYSTAL

DEF & POWER PC BOARD ASS'Y (SBY-2304A(U))

1/4	SYMBOL NO.	PART NO.	PART NAME	REMARKS	2/4	SYMBOL NO.	PART NO.	PART NAME	REMARKS
	VARIABLE RESISTOR					CAPACITOR	QEHC1CM-108MZ	E CAP.	1000 μ F 1.6V M
R2102	QVPA603-103A	V R (SUB CONTRAST)	10k Ω B		C2618	QEHC1VM-227MZ	E CAP.	220 μ F 3.5V M	
R2103	QVPA603-223A	V R (SUB BRIGHT)	22k Ω B		C2626	QEN61CM-106Z	BP E CAP.	10 μ F 1.6V M	
R2105	QVPA603-223A	V R (SUB COLOR)	22k Ω B		C2627	QCZ9134-472A	C CAP.	4700pFAC400V P	
R2447	QVPA804-203M	V R (SIDE PIN CORRECTION)	20k Ω B		C2901	QCZ9134-472A	C CAP.	4700pFAC400V P	
R2449	QVPA804-502M	V R (H. S1 SIZE)	5k Ω B		C2902				
R2660	QVPA803-201M	V R (12V ADJ.)	200 Ω B		C2903	QCZ9034-472A	C CAP.	4700pFAC400V P	
R2954	QVPE804-102H	V R (B1 ADJ.)	1k Ω B		C2904	QEZ084-227R	E CAP.	220 μ F 4.00V M	
RESISTOR					C2907	QEZ084-227R	E CAP.	220 μ F 4.00V M	
R2411	QRG119J-561S	OM R	560 Ω 1W J		C2910	QCZ0122-821U	C CAP.	560 μ F 2kV K	
R2444	QRG0119J-471S	OM R	470 Ω 1W J		C2912	QEHC1EM-476MZ	E CAP.	470pF 2kV K	
R2504	QRG029J-221A	OM R	220 Ω 2W J		C2916	QEHC1EM-476MZ	E CAP.	220 μ F 4.00V M	
R2506	QRG029J-471A	OM R	470 Ω 2W J		C2917	QFP31HG-302S2	PP CAP.	47 μ F 2.5V M	
R2531	QRG029J-391A	OM R	390 Ω 2W J		C2966	QEM51CK-107M	E CAP.	3000pF 50V G	
R2553	QRX029J-1R8	MF R	1.8 Ω 2W J		C2967	QEM61EK-106MZ	E CAP.	1000 μ F 1.6V K	
R2554	QRX039J-1R8	MF R	1.8 Ω 2W J		C2969	QFV71HJ-224MZ	TF CAP.	1.0 μ F 2.5V K	
R2555	QRX029J-3R3	MF R	3.3 Ω 2W J		G2970	QFZ0083-683MZ	M CAP.	0.22 μ F 50V K	
R2556	QRX039J-6R8	MF R	6.8 Ω 3W J		C2979	QFV71HJ-124MZ	TF CAP.	0.68 μ F 50V K	
R2557	QRG029J-220	OM R	22 Ω 2W J		C2980	QFV71HJ-474MZ	TF CAP.	4.7 μ F 50V J	
R2558	QRX142F-6801	MF R	6.8k Ω 1/4W F		C2982	TRANSFORMER	H DRIVE TRANSF.	1.2 μ F 50V J	
R2559	QRV142F-32241	MF R	3.24k Ω 1/4W F		C2983	CE4035-00A	SW TRANSF.	0.47 μ F 50V J	
R2605	QRG039J-563	OM R	56k Ω 3W J		C2984	CE4146-00A	SW TRANSF.	0.47 μ F 50V J	
R2607	QRG0119J-680S	OM R	68 Ω 1W J		△ C2991	QCZ9036-332M	C CAP.	3300pFAC400V M	
R2609	QRM055K-R56	MP R	0.56 Ω 5W K						
R2612	QRG029J-566	OM R	56 Ω 2W J						
R2614	QRG029J-223	OM R	22k Ω 2W J						
R2616	QRG029J-152	OM R	1.5k Ω 2W J						
R2626	QRG029J-152	OM R	1.5k Ω 2W J						
R2903	QRF104J-100	UNP R	1.0 Ω 10W J						
R2906	QRG029J-223A	OM R	22k Ω 2W J						
R2907	QRG029J-223A	OM R	22k Ω 2W J						
R2910	QRM055K-R22	MP R	0.22 Ω 5W K		L2441	CEL009-001	WIDTH COIL		
R2912	QRF056J-681C	UNP R	68 Ω 5W J		L2501	CE40603-00B	LINARITY COIL		
R2913	QRF076J-102	UNP R	1k Ω 7W J		L2502	CEL006-120Z	PEAKING COIL	1.2 μ H	
R2951	QRG029J-122A	OM R	1.2k Ω 2W J		L2551	CJ30030-050	HEATER CHOKE		
R2957	QRV142F-1502	MF R	330 Ω 1W J		L2602	CJ30030-046	HEATER CHOKE		
R2971	QRG029J-151	OM R	150 Ω 2W J						
R2972	QRG029J-121	OM R	120 Ω 2W J						
R2974	QRG029J-153	OM R	1.5k Ω 2W J		D2001	CEL002-470	CHOKE COIL		
R2981	QRM055K-R68	MP R	0.68 Ω 5W K		D2002	CEL002-470	CHOKE COIL		
R2991	QRZ01057-825	C R	8.2M Ω 1W J		D2401	MA4300-Y	ZENER DIODE		
CAPACITOR					D2403	ISR35-10-2	ZENER DIODE		
C2406	QEHC1VM-107MZ	E CAP.	100 μ F 3.5V M		D2501	ISS146-Y	SIL. DIODE		
C2441	QFV71HJ-823M2	TF CAP.	0.082 μ F 50V J		D2502	RH4P-LPK2	SIL. DIODE		
C2444	QFV71HJ-823M2	TF CAP.	0.082 μ F 50V J		D2503	U19G-Z	SIL. DIODE		
C2503	QEHC1AM-108M2	E CAP.	1.000 μ F 10V M		D2504	U19E-FK	SIL. DIODE		
C2509	QEHC1HM-105M2	E CAP.	1.0 μ F 50V K						
C2504	QEHC1HM-476MZ	E CAP.	4.7 μ F 50V M		D2531	MA4056 (M) -Y	ZENER DIODE		
C2505	QEHC1VM-1001S	MPP CAP.	1.000pF 1600V ±3%		D2532	MA4062 (H) -Y	ZENER DIODE		
C2506	QFV71HJ-9201S	MPP CAP.	9.200pF 1600V ±3%		D2535	ISS146-Y	SIL. DIODE		
C2609	QCZ0122-152A	C CAP.	1.500pF 2kV K		D2551	D2557	SIL. DIODE		
C2611	QEM61HK-25M2	E CAP.	2.0 μ F 50V K		D2553	ISS133-Y	SIL. DIODE		
C2613	QEM61EK-106M2	E CAP.	1.0 μ F 2.5V K		D2571	MA4068 (N) V1-Y	ZENER DIODE		
△	QFV81HJ-104M	TF CAP.	0.1 μ F 50V J		D2572	MA4091 (M) -Y	ZENER DIODE		
△	QEHC12AM-106M	E CAP.	1.0 μ F 100V M		D2573	MA4091 (M) -Y	ZENER DIODE		

4/4	SYMBOL NO.	PART NO.	PART NAME	PART NO.	PART NAME	REMARKS
	I C	IC2401 IC2551 IC2552 IC2601 IC2951	IC PROTECTOR IC PROTECTOR IC PROTECTOR HEADPHONE JACK	J 2001 R 2571 R 2611	AX49607-004 QRH017J-4R7M QRZ0054-8R2M	J J J
	△	CP2601 CP2901	IC PROTECTOR IC PROTECTOR	R 2633 R 2632 R 2633 R 2959 S 2001	QRZ0054-2R2M QRZ0054-2R2M QRZ0054-2R2M QRZ0055-2R2M QST321-C01	J J J J J
	△	OTHERS	OTHERS	R 2623 R 2632 R 2633 R 2959 S 2001	QRZ0054-2R2M QRZ0054-2R2M QRZ0054-2R2M QRZ0055-2R2M QST321-C01	J J J J J
	△	RG1C-LFA1 RG1C-LFA1 RG4C-LFK2	ZENER DIODE ZENER DIODE THYRISTOR	S 2003 S 2006 S 2007 S 2008 S 2009	QSS4C22-C04 QSP1A11-C10 QSP1A11-C10 QSP1A11-C10 QSP1A11-C10	J J J J J
	△	D2904 D2905 D2908 D2909 D2951	SI DIODE SI DIODE SI DIODE SI DIODE SI DIODE	S 2010 S 2401 ERT-D2ZHL503S	QSP1A11-C10 QSL4A13-C02 ERT-D2ZHL503S	J
	△	D2952 D2955 D2956 D2958 D2959	SI DIODE SI DIODE SI DIODE SI DIODE SI DIODE	TH2441	PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH	J
	△	D2961 D2962 D2963 D2965 D2966	SI DIODE SI DIODE SI DIODE SI DIODE SI DIODE		SLIDE SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH	J
	△	D2967 D2968 D2970 D2971	SI DIODE SI DIODE SI DIODE SI DIODE		PUSH SWITCH PUSH SWITCH LEVER SWITCH THERMISTOR	J
	△	D5	ZENER DIODE			
	△	RD5, 6 (B2)	ZENER DIODE			
	△	D2991 D2992 D2993 D2995 D2996	ISS146-Y ISS146-Y ISS146-Y EU2A-Z ISS146-Y			
	△	D2997 D2998 D2999 D2971	EU2A-Z ISS81-R RG4C-LFK2 ISS133-Y MA150 (M) -Y RD5, 6 (B2)			
	△	TRANSISTOR Q2401 Q2402 Q2441 Q2442 Q2443	2SA1015 (Y, GR) 2SC1890A (E, F) 2SC1815 (Y, GR) 2SA1015 (Y, GR) 2SD1266A (P, Q)	2SC3169 (O, Y) Y 2SD1145 (Y, GR) Y 2SC1815 (Y, GR) Y 2SC1815 (Y, GR) Y 2SC1115 (Y, GR) Y	S1. TRANSISTOR S1. TRANSISTOR S1. TRANSISTOR S1. TRANSISTOR S1. TRANSISTOR	
	△	Q2501 Q2502 Q2503 Q2504 Q2505 Q2571 Q2572	2SC3169 (O, Y) Y 2SD1145 (Y, GR) Y 2SC1815 (Y, GR) Y 2SC1815 (Y, GR) Y 2SA1015 (Y, GR) Y 2SD1166A (P, Q)	2SC437 (Y, GR) Y 2SC3169 (O, Y) Y 2SC2555 (Y) Y 2SC3168 (Y) Y 2SC1128 (O, Y) -Y 2SC815 (GR) -Y	S1. TRANSISTOR S1. TRANSISTOR S1. TRANSISTOR S1. TRANSISTOR S1. TRANSISTOR S1. TRANSISTOR	
	△	Q2573 Q2601 Q2603 Q2604 Q2606	2SA1015 (Y, GR) Y 2SA916-Y 2SC815 (GR) -Y 2SC1115 (Y, GR) Y	2SC437 (Y, GR) Y 2SC3169 (O, Y) Y 2SC2555 (Y) Y 2SC3168 (Y) Y 2SC1128 (O, Y) -Y	S1. TRANSISTOR S1. TRANSISTOR S1. TRANSISTOR S1. TRANSISTOR S1. TRANSISTOR	
	△	Q2901 Q2951 Q2952 Q2953 Q2954	2SC437 2SC3169 (O, Y) Y 2SC2555 (Y) Y 2SC3168 (Y) Y 2SC2555 (Y) 2SC3168 (Y)	2SC437 2SC3169 (O, Y) Y 2SC2555 (Y) Y 2SC3168 (Y) Y 2SC2555 (Y) 2SC3168 (Y)	S1. TRANSISTOR S1. TRANSISTOR S1. TRANSISTOR S1. TRANSISTOR S1. TRANSISTOR	

3/4	SYMBOL NO.	PART NO.	PART NAME	REMARKS
	DIODE D2574 D2575 D2576 D2602 D2603	ISS133-Y MA062 (M) -Y RD156 (B) RUIC-LFA1 EG12-Z	SI. DIODE ZENER DIODE ZENER DIODE SI. DIODE SI. DIODE	
	D2604 D2605 D2606 D2607 D2608	EG12-Z EU2A-Z RL2Z RD9, 1E (B) EU2A-Z	SI. DIODE SI. DIODE SI. DIODE ZENER DIODE SI. DIODE	
	D2609	RD30E (B2)	ZENER DIODE	
	D2610 D2614 D2901	EU2A-Z RD36E (B3) SF5J42	SI. DIODE ZENER DIODE DIODE BRIDGE	
	D2904	RG1C-LFA1	SI. DIODE	
	D2905	RG1C-LFA1	SI. DIODE	
	D2908	ISS81-R	SI. DIODE	
	D2909	ISS81-R	SI. DIODE	
	D2951	RG4C-LFK2	SI. DIODE	
	D2952	EU2A	SI. DIODE	
	D2955	ISS133-Y	SI. DIODE	
	D2956	ISS81-R	SI. DIODE	
	D2958	MA150 (M) -Y	SI. DIODE	
	D2959	RD5, 6 (B2)	ZENER DIODE	
	D2961 D2962 D2963 D2965 D2966	ISS146-Y ISS146-Y ISS146-Y EU2A-Z ISS146-Y	SI. DIODE SI. DIODE SI. DIODE SI. DIODE SI. DIODE	
	D2967 D2968 D2970 D2971	EU2A-Z ISS81-R RG4C-LFK2 ISS133-Y	SI. DIODE SI. DIODE SI. DIODE SI. DIODE	
	TRANSISTOR Q2401 Q2402 Q2441 Q2442 Q2443	2SA1015 (Y, GR) 2SC1890A (E, F) 2SC1815 (Y, GR) 2SA1015 (Y, GR) 2SD1266A (P, Q)	2SC3169 (O, Y) Y 2SD1145 (Y, GR) Y 2SC1815 (Y, GR) Y 2SC1815 (Y, GR) Y 2SA1015 (Y, GR) Y	S1. TRANSISTOR S1. TRANSISTOR S1. TRANSISTOR S1. TRANSISTOR S1. TRANSISTOR
	Q2501 Q2502 Q2503 Q2504 Q2505 Q2571 Q2572	2SC3169 (O, Y) Y 2SD1145 (Y, GR) Y 2SC1815 (Y, GR) Y 2SC1815 (Y, GR) Y 2SA1015 (Y, GR) Y 2SD1166A (P, Q)	2SC437 (Y, GR) Y 2SC3169 (O, Y) Y 2SC2555 (Y) Y 2SC3168 (Y) Y 2SC1128 (O, Y) -Y 2SC815 (GR) -Y	S1. TRANSISTOR S1. TRANSISTOR S1. TRANSISTOR S1. TRANSISTOR S1. TRANSISTOR S1. TRANSISTOR
	Q2573 Q2601 Q2603 Q2604 Q2606	2SA1015 (Y, GR) Y 2SA916-Y 2SC815 (GR) -Y 2SC1115 (Y, GR) Y	2SC437 2SC3169 (O, Y) Y 2SC2555 (Y) Y 2SC3168 (Y) Y 2SC2555 (Y) 2SC3168 (Y)	S1. TRANSISTOR S1. TRANSISTOR S1. TRANSISTOR S1. TRANSISTOR S1. TRANSISTOR
	Q2901 Q2951 Q2952 Q2953 Q2954	2SC437 2SC3169 (O, Y) Y 2SC2555 (Y) Y 2SC3168 (Y) Y 2SC2555 (Y) 2SC3168 (Y)	2SC437 2SC3169 (O, Y) Y 2SC2555 (Y) Y 2SC3168 (Y) Y 2SC2555 (Y) 2SC3168 (Y)	S1. TRANSISTOR S1. TRANSISTOR S1. TRANSISTOR S1. TRANSISTOR S1. TRANSISTOR

CRT SOCKET PC BOARD ASS'Y (SBY-3054A(U))

SYMBOL NO.	PART NO.	PART NAME	REMARKS
VARIABLE RESISTOR R3111	QVP8A03-502M	V R (R CUT OF F)	5kΩ B
R3111	QVP8A03-502M	V R (G CUT OF F)	5kΩ B
R3114	QVP8A03-502M	V R (B CUT OF F)	5kΩ B
R3115	QVP8A03-502M	V R (R DRIVE)	200 Ω B
R3119	QVP8A03-201M	V R (G DRIVE)	200 Ω B
R3120	QVP8A03-201M		
RESISTOR R3104	QRG029J-153A	OM, R	15kΩ 2W J
R3105	QRG029J-153A	OM, R	15kΩ 2W J
R3106	QRG029J-153A	OM, R	15kΩ 2W J
R3107	QRG029J-183A	OM, R	18kΩ 2W J
R3108	QRG029J-183A	OM, R	18kΩ 2W J
R3109	QRG029J-183A	OM, R	18kΩ 2W J
R3125	QRZ0056-332A	COMP, R	3, 3kΩ 1/2W K
R3126	QRZ0056-332Z	COMP, R	3, 3kΩ 1/2W K
R3127	QRZ0056-332Z	COMP, R	3, 3kΩ 1/2W K
R3128	QRZ0056-332Z	COMP, R	3, 3kΩ 1/2W K
R3129	QRZ0056-332Z	COMP, R	3, 3kΩ 1/2W K
R3130	QRZ0056-332Z	COMP, R	3, 3kΩ 1/2W K
CAPACITOR C3161	QFH53BK-223M	MM CAP.	0.022μF 1250V K
COIL L3101	QQL043K-101	PEAKING COIL	100μH
L3102	QQL043K-101	PEAKING COIL	100μH
L3103	QQL043K-101	PEAKING COIL	100μH
L3104	A76186-472	PEAKING COIL	47μF
L3105	A76186-472	PEAKING COIL	47μF
L3106	A76186-472	PEAKING COIL	47μF
DIODE D3101	ISS1333-Y	S1. DIODE	
D3102	ISS1333-Y	S1. DIODE	
D3103	ISS1333-Y	S1. DIODE	
D3104	ISS1333-Y	S1. DIODE	
D3105	ISS1333-Y	S1. DIODE	
TRANSISTOR Q3101	2SC1360	S1. TRANSISTOR	
Q3102	2SC1360	S1. TRANSISTOR	
Q3103	2SC1360	S1. TRANSISTOR	
Q3104	2SC2068-LB	S1. TRANSISTOR	R. OUT
Q3105	2SC2068-LB	S1. TRANSISTOR	G. OUT
Q3106	2SC2068-LB	S1. TRANSISTOR	B. OUT
Q3151	2SC1360	S1. TRANSISTOR	
Q3152	2SC1360	S1. TRANSISTOR	
Q3153	2SC1360	S1. TRANSISTOR	
OTHERS	A75522-C	CRT SOCKET	

DIGITAL SOUND PC BOARD ASS'Y (SBY-6001A(U))

REMARKS	PART NAME	PART NO.	SYMBOL NO.
RESISTOR	QRV141F-9101Y	MF R	R6421
	QRV141F-1201AY	MF R	R6422
	QRV141F-9101Y	MF R	R6431
	QRV141F-1201AY	MF R	R6432
	QRG039J-390	OM R	R6911
CAPACITOR	QRX039J-4R7A	MF R	R6921
	C CAP.	C CAP.	C6110
	C CAP.	C CAP.	C6205
	C CAP.	C CAP.	C6206
	C CAP.	C CAP.	C6207
	TRIM CAP.	3.0PF	C6208
	TF CAP.	0. 1μF	C6213
	TF CAP.	0. 1μF	C6214
	TF CAP.	0. 1μF	C6215
	TF CAP.	0. 1μF	C6216
	TF CAP.	0. 1μF	C6221
	QAT3110-300A	3.0PF	C6222
	C CAP.	5.6PF	C6223
	C CAP.	2.2PF	C6224
	PP CAP.	1.2PF	C6413
	PP CAP.	3.0PF	C6418
	TRIM CAP.	3.0PF	C6491
	BP E CAP.	1μF	C6492
	BP E CAP.	1.0μF	C6493
	BP E CAP.	1.0μF	C6494
	BP E CAP.	1.0μF	C6501
	BP E CAP.	1.0μF	C6502
	BP E CAP.	1.0μF	C6503
	BP E CAP.	1.0μF	C6504
	BP E CAP.	1.0μF	C6505
	BP E CAP.	1.0μF	C6506
	BP E CAP.	1.0μF	C6511
	BP E CAP.	1.0μF	C6512
	BP E CAP.	1.0μF	C6513
	BP E CAP.	1.0μF	C6514
TRANSFORMER	CW TRANSF.	T6103	CE40119-303
	SIF TRANSF.	T6161	CE40737-201
	B P F	T6201	CE41541-001
	PEAKING COIL	L6101	CE40143-R56
	PEAKING COIL	L6102	AT6186-1.5Z
	PEAKING COIL	L6104	AT6186-6.8Z
	PEAKING COIL	L6105	AT6186-6.8Z
	PEAKING COIL	L6106	AT6186-6.8Z
	PEAKING COIL	L6107	A76186-6.8Z
	PEAKING COIL	L6108	A76186-6.8Z
	PEAKING COIL	L6109	A76186-8.2Z
	PEAKING COIL	L6201	A76186-8.20Z
	PEAKING COIL	L6202	A76186-8.20Z
	PEAKING COIL	L6401	A76186-3.3Z
	PEAKING COIL	L6402	A76186-3.3Z
	PEAKING COIL	L6901	A76186-6.8Z
	0. 56μH		
	1. 5μH		
	6. 8μH		
	6. 2μH		
	8.0μH		
	8.0μH		
	8.0μH		
DIODE	ISS133-Y	D6702	S.I. DIODE
	ISS133-Y	D6703	S.I. DIODE

A/V TERMINAL PC BOARD ASS'Y (SBY-7003A(U))

1/2 SYMBOL

SYMBOL NO.	PART NO.	PART NAME	REMARKS
DIODE			
D6704	ISS133-Y	S.I. DIODE	
D6705	ISS133-Y	S.I. DIODE	
D6706	ISS133-Y	S.I. DIODE	
D6901	RD11E(B2)-Y	ZENER DIODE	
D6902	ISS133-Y	S.I. DIODE	
TRANSISTOR			
Q6101	2SC1360	S.I. TRANSISTOR	
Q6104	2SC1740S (Q, R) Y	S.I. TRANSISTOR	
Q6105	2SA933S (Q, R) -Y	S.I. TRANSISTOR	
Q6201	2SC1740S (Q, R) Y	S.I. TRANSISTOR	
Q6251	2SC1815 (Y) -Y	S.I. TRANSISTOR	
Q6311	2SC1740S (Q, R) Y	S.I. TRANSISTOR	
Q6312	2SC1740S (Q, R) Y	S.I. TRANSISTOR	
Q6313	2SC2878 (B) -Y	S.I. TRANSISTER	
Q6501	2SC2878 (B) -Y	S.I. TRANSISTER	
Q6502	2SC1740S (Q, R) Y	S.I. TRANSISTOR	
Q6520	2SC1740 (Q, R) -Y	S.I. TRANSISTOR	
Q6530	2SC1740 (Q, R) -Y	S.I. TRANSISTOR	
Q6591	2SA933S (Q, R) -Y	S.I. TRANSISTOR	
Q6701	2SC1740S (Q, R) Y	S.I. TRANSISTOR	
Q6702	2SC1740S (Q, R) Y	S.I. TRANSISTOR	
Q6703	2SC1740S (Q, R) Y	S.I. TRANSISTOR	
Q6704	2SC1740S (Q, R) Y	S.I. TRANSISTOR	
Q6705	2SC1740S (Q, R) Y	S.I. TRANSISTOR	
Q6706	2SC1740S (Q, R) Y	S.I. TRANSISTOR	
Q6707	2SC1740S (Q, R) Y	S.I. TRANSISTOR	
Q6708	2SC1740S (Q, R) Y	S.I. TRANSISTOR	
Q6709	2SC1740S (Q, R) Y	S.I. TRANSISTOR	
Q6710	2SC1740S (Q, R) Y	S.I. TRANSISTOR	
Q6711	2SC1740S (Q, R) Y	S.I. TRANSISTOR	
Q6712	2SC1740S (Q, R) Y	S.I. TRANSISTOR	
Q6713	2SC1740S (Q, R) Y	S.I. TRANSISTOR	
Q6914	2SC1740 (Q, R) -Y	S.I. TRANSISTOR	
IC	M51365-SP	I. C. (M)	
IC6101	TA6662N	I. C.	
IC6201	VC22050	I. C.	
IC6301	M5M21C67P-55	I. C. (M)	
IC6302	TD6710AN	I. C.	
IC6421	M5213L	I. C.	
IC6450	CE41664-001	H. I. C.	
IC6451	CE41666-001	H. I. C.	
IC6500	M5155P	I. C. (M)	
IC6501	TK15021Z	I. C.	
IC6502	M5213L	I. C.	
IC6911	TAT78L005AP	I. C.	
IC6921	TA78012AP	I. C. (M)	
OTHERS			
CF6401	C SA16.93MX040	C RESONATOR	
CF6601	A75088-C	CERAMIC FILTER	
CF6602	R65088-C	CERAMIC FILTER	
R6500	QRZ0054-470M	F R	
SF6101	CE41031-403	SAW FILTER	
X6201	CE41539-C	X-TAL	
X6202	CE41540-C	X-TAL	

SYMBOL NO.	PART NO.	PART NAME	PART NAME	REMARKS
CAPACITOR				
C7001	QEJK1HM-105GMZ	E CAP.	1 μ F	50 V M
C7002	QEJK1HM-105GMZ	E CAP.	1 μ F	50 V M
C7003	QEJK1HM-105GMZ	E CAP.	1 μ F	50 V M
C7004	QEJK1HM-105GMZ	E CAP.	1 μ F	50 V M
C7005	QEN61HM-105Z	BP E CAP.	1 μ F	50 V M
C7006	QEN61HM-105Z	BP E CAP.	1 μ F	50 V M
C7007	QEJK1HM-105GMZ	E CAP.	1 μ F	50 V M
C7008	QEJK1HM-105Z	BP E CAP.	1 μ F	50 V M
C7009	QEN61HM-105Z	E CAP.	1 μ F	50 V M
C7010	QEJK1CM-336MZ	E CAP.	33 μ F	16 V M
C7011	QEJK1CM-107MZ	E CAP.	100 μ F	16 V M
C7101	QEJK1CM-476MZ	E CAP.	47 μ F	1.6 V M
C7102	QEJK1CM-336MZ	E CAP.	33 μ F	1.6 V M
C7104	QEJK1CM-336MZ	E CAP.	33 μ F	1.6 V M
C7107	QEJK1CM-336MZ	E CAP.	33 μ F	1.6 V M
C7110	QEJK1CM-476MZ	E CAP.	47 μ F	1.6 V M
C7111	QEJK1CM-476MZ	E CAP.	47 μ F	1.6 V M
C7201	QEJK1VM-107MZ	E CAP.	100 μ F	1.6 V M
C7202	QEJK1VM-475GMZ	E CAP.	4.7 μ F	3.5 V M
C7203	QEJK1VM-475GMZ	E CAP.	4.7 μ F	3.5 V M
C7204	QEJK1VM-475GMZ	E CAP.	4.7 μ F	3.5 V M
C7205	QEJK1VM-475GMZ	E CAP.	4.7 μ F	3.5 V M
C7206	QEJK1VM-475GMZ	E CAP.	4.7 μ F	3.5 V M
C7209	QEJK1CM-106GMZ	E CAP.	10.0 μ F	1.6 V M
COIL	CJ30030-005	HEATER CHOKE		
L7801	CJ30030-005	HEATER CHOKE		
L7802	CJ30030-005	HEATER CHOKE		
DIODE				
D7001	RDI3JS-Y	SI DIODE		
D7002	RDI3JS-Y	SI DIODE		
D7003	RDI3JS-Y	SI DIODE		
D7004	RDI3JS-Y	SI DIODE		
D7005	RDI3JS-Y	SI DIODE		
D7006	RDI3JS-Y	SI DIODE		
D7007	RDI3JS-Y	SI DIODE		
D7008	RDI3JS-Y	SI DIODE		
D7009	RDI3JS-Y	SI DIODE		
D7010	RDI3JS-Y	SI DIODE		
D7011	RDI3JS-Y	SI DIODE		
D7012	RDI3JS-Y	SI DIODE		
D7015	RDI3JS-Y	SI DIODE		
D7016	RDI3JS-Y	SI DIODE		
D7109	RDI3JS-Y	SI DIODE		
D7110	RDI3JS-Y	SI DIODE		
D7111	RDI3JS-Y	SI DIODE		
D7112	RDI3JS-Y	SI DIODE		
D7201	RDI3JS-Y	SI DIODE		
TRANSISTOR				
Q7001	2SC1815 (Y, GR) Y	SI. TRANSISTOR		
Q7002	2SC1815 (Y, GR) Y	SI. TRANSISTOR		
Q7003	2SC1815 (Y, GR) Y	SI. TRANSISTOR		
Q7005	2SC1815 (Y, GR) Y	SI. TRANSISTOR		
Q7006	2SC1815 (Y, GR) Y	SI. TRANSISTOR		
Q7007	2SC1815 (Y, GR) Y	SI. TRANSISTOR		
Q7009	2SC1815 (Y, GR) Y	SI. TRANSISTOR		
Q7101	2SC1815 (Y, GR) Y	SI. TRANSISTOR		

LINE FILTER PC BOARD ASS'Y (SBY-9007A(U))

SYMBOL NO.	PART NO.	PART NAME	REMARKS
Q7102	2SC1815 (Y, GR) Y	S.I. TRANSISTOR	
Q7103	2SC1815 (Y, GR) Y	S.I. TRANSISTOR	
Q7104	2SC1815 (Y, GR) Y	S.I. TRANSISTOR	
Q7105	2SC1815 (Y, GR) Y	S.I. TRANSISTOR	
Q7106	2SC1815 (Y, GR) Y	S.I. TRANSISTOR	
Q7107	2SC1815 (Y, GR) Y	S.I. TRANSISTOR	
Q7108	2SC1815 (Y, GR) Y	S.I. TRANSISTOR	
Q7109	2SC1815 (Y, GR) Y	S.I. TRANSISTOR	
Q7110	2SC1815 (Y, GR) Y	S.I. TRANSISTOR	
Q7111	2SC1815 (Y, GR) Y	S.I. TRANSISTOR	
Q7112	2SC1815 (Y, GR) Y	S.I. TRANSISTOR	
Q7113	2SC1815 (Y, GR) Y	S.I. TRANSISTOR	
Q7114	2SC1815 (Y, GR) Y	S.I. TRANSISTOR	
Q7201	2SC1815 (Y, GR) Y	S.I. TRANSISTOR	
Q7202	2SC1815 (Y, GR) Y	S.I. TRANSISTOR	
Q7203	2SC1815 (Y, GR) Y	S.I. TRANSISTOR	
IC7001	TC4066BP	I. C. (M)	
IC7002	TC4066BP	I. C. (M)	
IC7003	TC4066BP	I. C. (M)	
IC7101	TC4066BP	I. C. (M)	
IC7102	TC4066BP	I. C. (M)	
IC7103	TC4066BP	I. C. (M)	
IC7104	TC4066BP	I. C. (M)	
IC7201	TC4066BP	I. C. (M)	
IC7202	TC4066BP	I. C. (M)	
OTHERS			
DL7101	CE41042-002	DELAY LINE	
J7001	CE40529-006	SCART CONNECTOR	Peri 1
J7002	CE40529-006	SCART CONNECTOR	Peri 2
J7003	QMD4A04-001	DIN CONNECTOR	
J7004	CEMN021-001	PIN JACK	Audio In
J7005	CEMN021-001	PIN JACK	TV Audio Out
J7006	CEMN025-001	SP TERMINAL	SP Out

2/2

SYMBOL NO.	PART NO.	PART NAME	REMARKS
CAPACITOR C8002	QFV81HJ-104M	TF CAP.	0. 1μF 50V J
C8003	QFV81HJ-104M	TF CAP.	0. 1μF 50V J
DIODE D8001	ISS1133	S.I. DIODE	
TRANSISTOR Q8001	2SC1815 (Y, GR)	S.I. TRANSISTOR	
IC8001	MN4050B	I. C. (M)	
IC8002	MN4013B	I. C. (M)	

MICOM SUPPORT PC BOARD ASS'Y (SBY-8001A(U))

SYMBOL NO.	PART NO.	PART NAME	REMARKS
CAPACITOR C8002	QFV81HJ-104M	TF CAP.	0. 1μF 50V J
C8003	QFV81HJ-104M	TF CAP.	0. 1μF 50V J
DIODE D8001	ISS1133	S.I. DIODE	
TRANSISTOR Q8001	2SC1815 (Y, GR)	S.I. TRANSISTOR	
IC8001	MN4050B	I. C. (M)	
IC8002	MN4013B	I. C. (M)	

MICOM SUPPORT PC BOARD ASS'Y (SBY-8001A(U))

SYMBOL NO.	PART NO.	PART NAME	REMARKS
CAPACITOR C1016	QAT3110-300A	TRIM CAP.	30pF

■ MODULE PRINTED CIRCUIT BOARD PARTS LIST

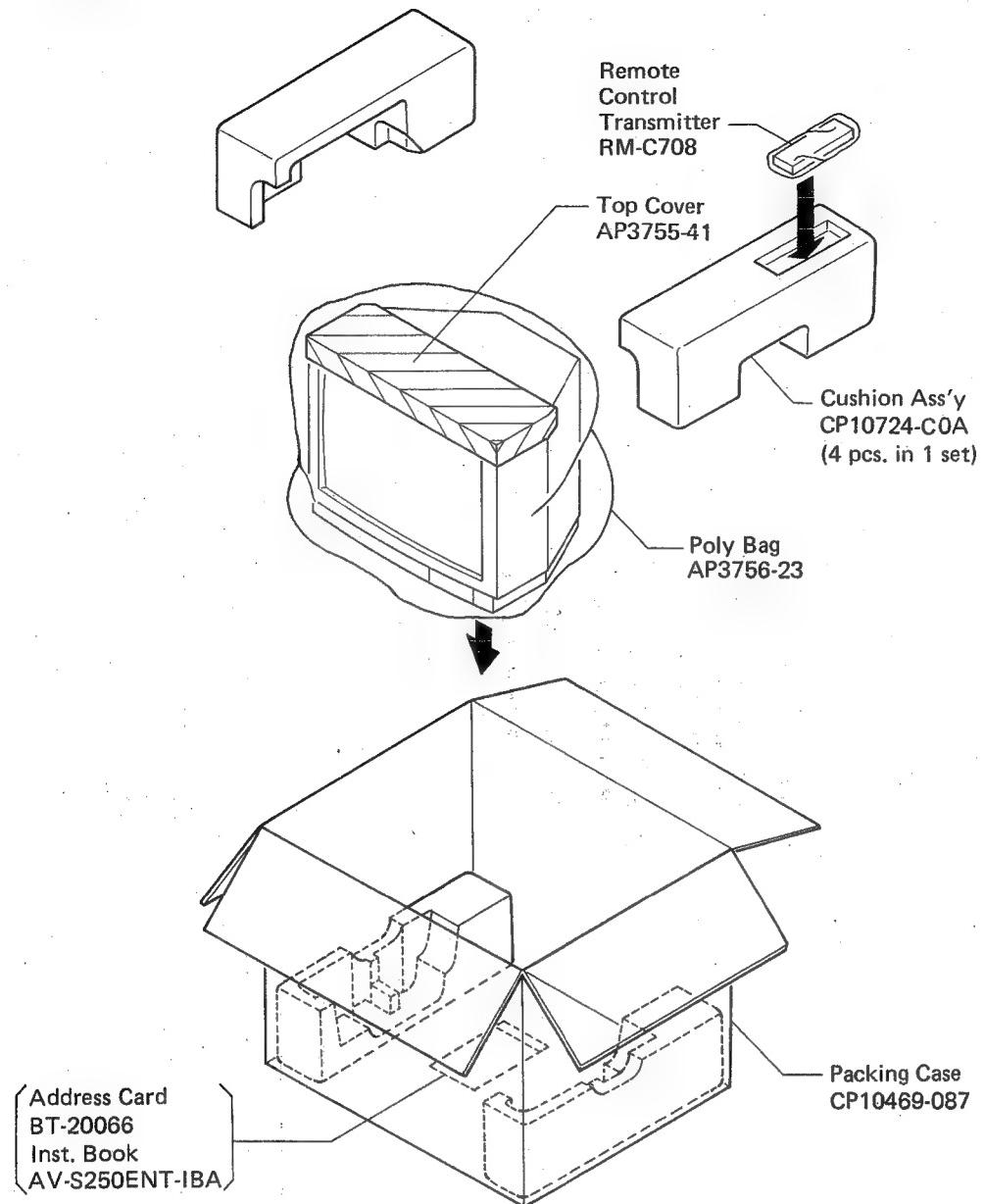
• The following module PC boards are supplied as assemblies. The component parts on the module PC boards are available only when the parts are listed in the "Module Printed Circuit Board Parts List".

(A) D.L. APACON MODULE (SBY-D001A(U))**(B) IF MODULE (SBY-F002A-MU4)****(C) STATION SELECT MODULE (SBY-M005A(U))****(D) PERI MODULE (SBY-P006A(U))**

SYMBOL NO.	PART NO.	PART NAME	REMARKS
VARIABLE RESISTOR R1002	QVPA601-103A	V R (B CUT OFF)	10kΩ B
R1004	QVPA601-103A	V R (R CUT OFF)	10kΩ B
R1006	QVPA601-472A	V R (SUB BRIGHT)	4. 7kΩ B
R1012	QVPA601-223A	V R (SUB CONTRAST)	22kΩ B

(E) RGB SWITCH MODULE (SBY-R002A(U))**(F) TELETEXT MODULE (SBY-T002A(U))**

■ PACKING DIAGRAM



CAUTION

- The parts marked are very important for the safety. When replacing these parts, be sure to use specified ones to secure the safety and performance.
- The parts which do not have the drawing in this Parts List, P.C. Board Ass'y and the Part No. columns of which are filled with lines —, will not be supplied.
- As a rule, the resistors and capacitors which are indicated as shown in **(NOTE 2)** "HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS" are not shown in the list of the parts on the board.
When ordering the service parts, confirm the resistance/rated power, capacitance/rated voltage, and type of the parts, then order by the part No. indicated according to **(NOTE 2)**.

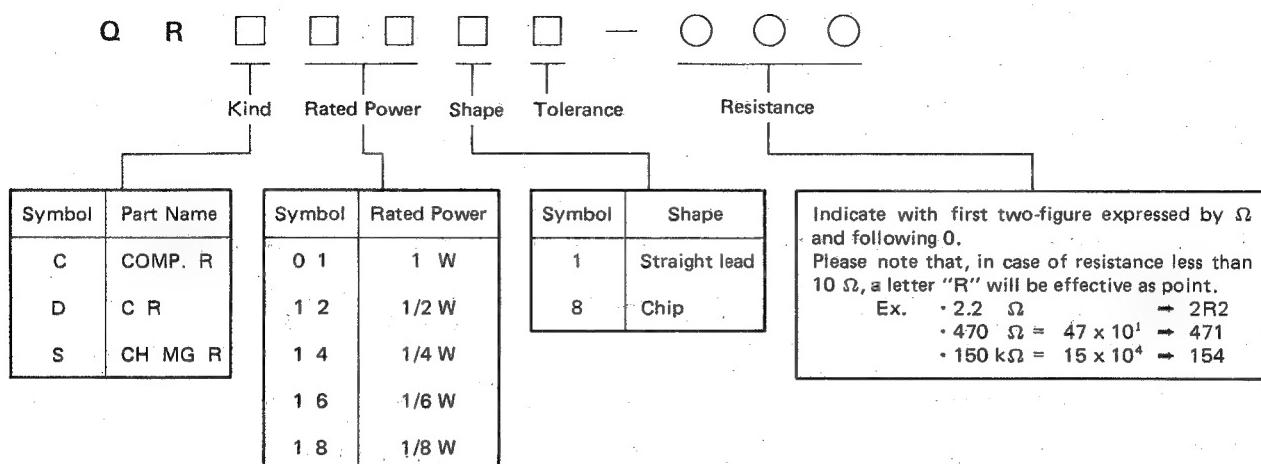
(NOTE 1) ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
C R	Carbon Resistor	C CAP.	Ceramic Capacitor
F R	Fusible Resistor	E CAP.	Electrolytic Capacitor
P R	Plate Resistor	M CAP.	Mylar Capacitor
V R	Variable Resistor	HV CAP.	High Voltage Capacitor
HV R	High Voltage Resistor	MF CAP.	Metalized Film Capacitor
MF R	Metal Film Resistor	MM CAP.	Metalized Mylar Capacitor
MG R	Metal Glazed Resistor	MP CAP.	Metalized Polystyrol Capacitor
MP R	Metal Plate Resistor	PP CAP.	Polypropylene Capacitor
OM R	Metal Oxide Film Resistor	PS CAP.	Polystyrol Capacitor
CMF R	Coating Metal Film Resistor	TF CAP.	Thin Film Capacitor
UNF R	Non-Flammable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH V R	Chip Variable Resistor	TAN. CAP.	Tantalum Capacitor
CH MG R	Chip Metal Glazed Resistor	CH C CAP.	Chip Ceramic Capacitor
COMP. R	Composition Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Aluminum Bi-Polar Electrolytic Capacitor

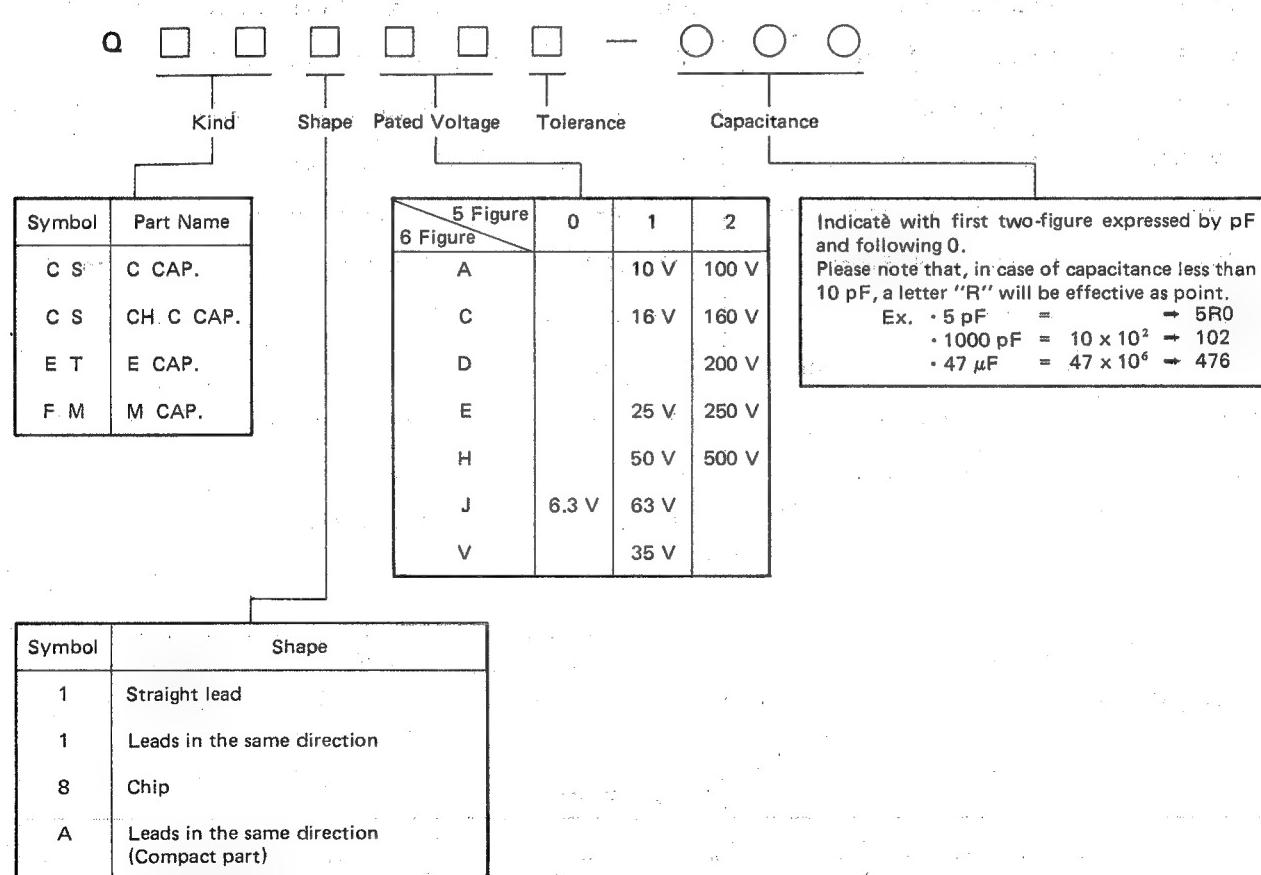
TOLERANCES									
F	G	J	K	M	N	R	H	Z	P
± 1 %	± 2 %	± 5 %	± 10 %	± 20 %	± 30 %	+ 30 % - 10	+ 50 % - 10	+ 80 % - 20	+ 100 % - 0

NOTE 2 HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS

■ RESISTOR



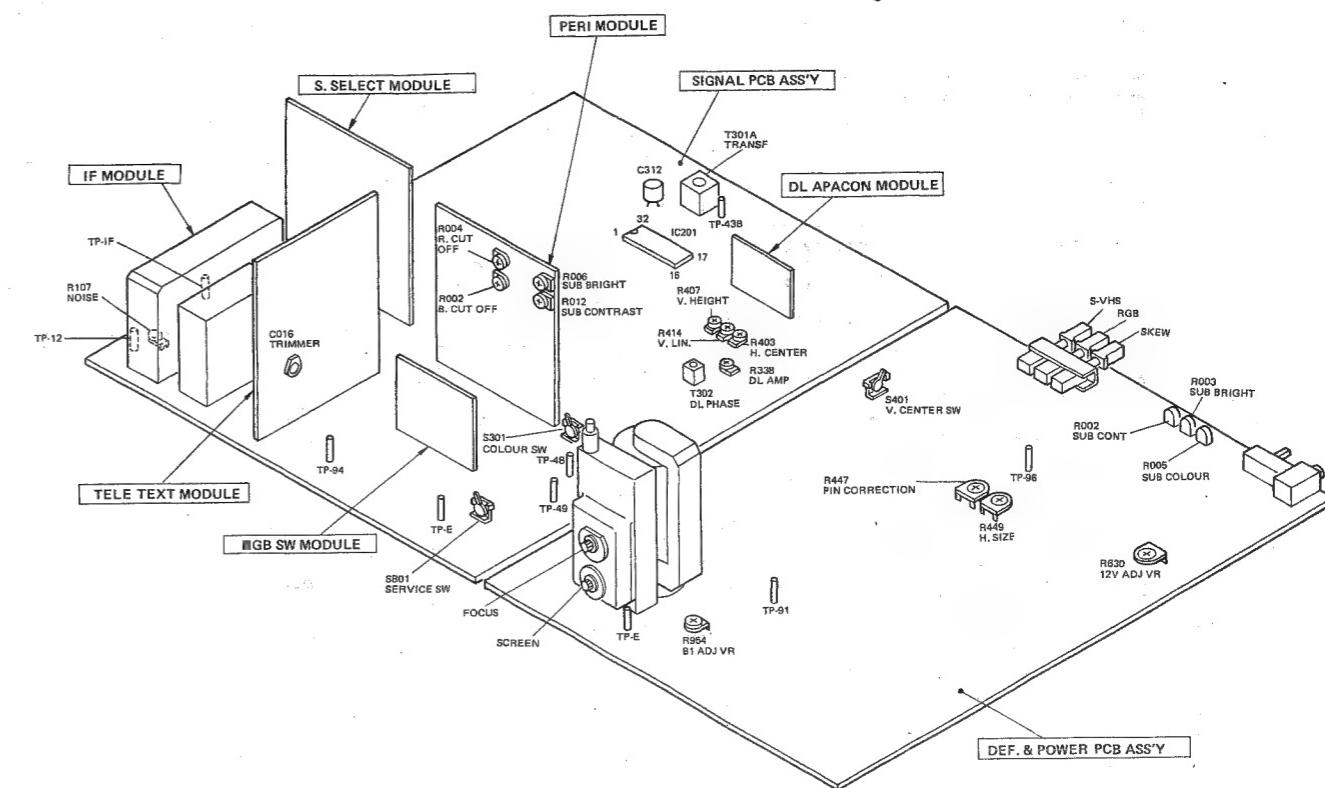
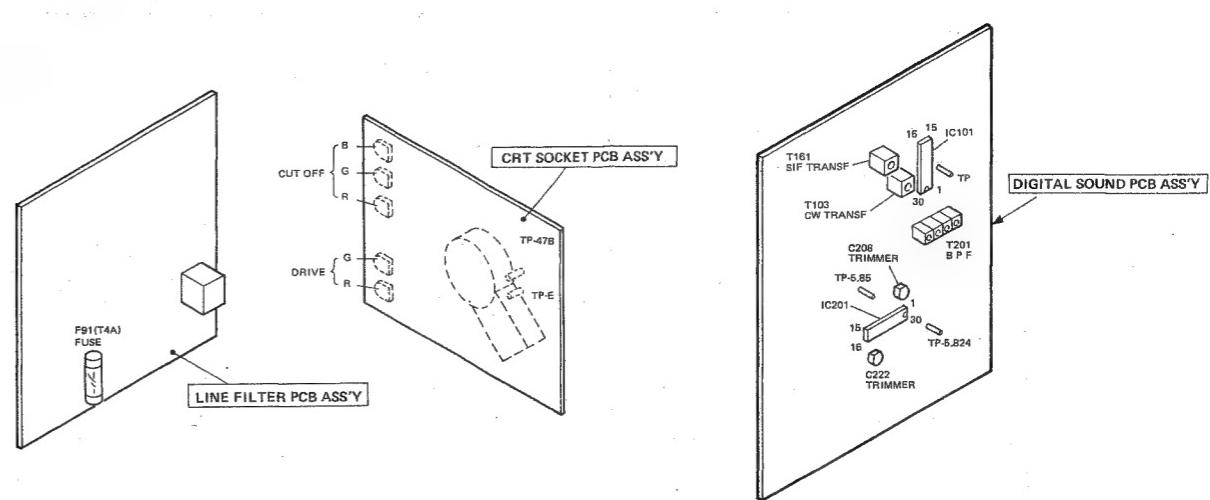
■ CAPACITOR



JVC AV-S250ENT SCHEMATIC DIAGRAM

(A) AV-S250ENT (B) AV-S250ENT (A)

ALIGNMENT LOCATION



NOTICE

- Voltage values and waveforms are measured by respectively receiving and displaying on the screen the colour bars signals of the PAL.
- [Voltage value display method]
- The voltage values indicated within the circuits denote those obtained when PAL colour bar signals are received and displayed on the screen.

- The voltage values when receiving and displaying the PAL signal on the screen and the each mode values of the VSM & AUDIO STATUS are varied is shown in the LIST on page ② (Difference voltage list).
- Multimeter used.
DC 20kΩ/V
Given figures are all DC voltages.

Sweep speed of oscilloscope
H → 20μS/div. V → 5mS/div.
Others—sweep speed specified

- Since the schematic diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

SAFETY

FR (— FR) denotes a fusible resistor which operates as a fuse. When replacing fusible resistors and parts indicated with black shading (■■■) in the circuit diagrams, be sure to ensure safety by using designated parts. As to other parts too, use designated parts to maintain safety and performance.

NOTE FOR SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE (primary: +) side GND and the NEUTRAL (secondary: -) side GND.

Don't short between the LIVE side GND and NEUTRAL side GND or never measure with a measuring apparatus (oscilloscope etc.) the LIVE side GND and NEUTRAL side GND at the same time.

If above note will not be kept, a fuse or any parts will be broken.

INDICATION OF PARTS SYMBOL

Inside board (Example) SBY-1304A: R1209 → R209
Outside board (Example) R0001 → R01

— : B₁(148V) — : B₂(12V)

— : 9V — : 5V

* Each voltage reading specified

Test point & GND. symbol.

- : Test point by miniature GT pin
- : Only test point display
- : Live (Primary) side ground
- : Neutral (Secondary) side ground

DIFFERENCE VOLTAGE LIST

(UNIT=V)

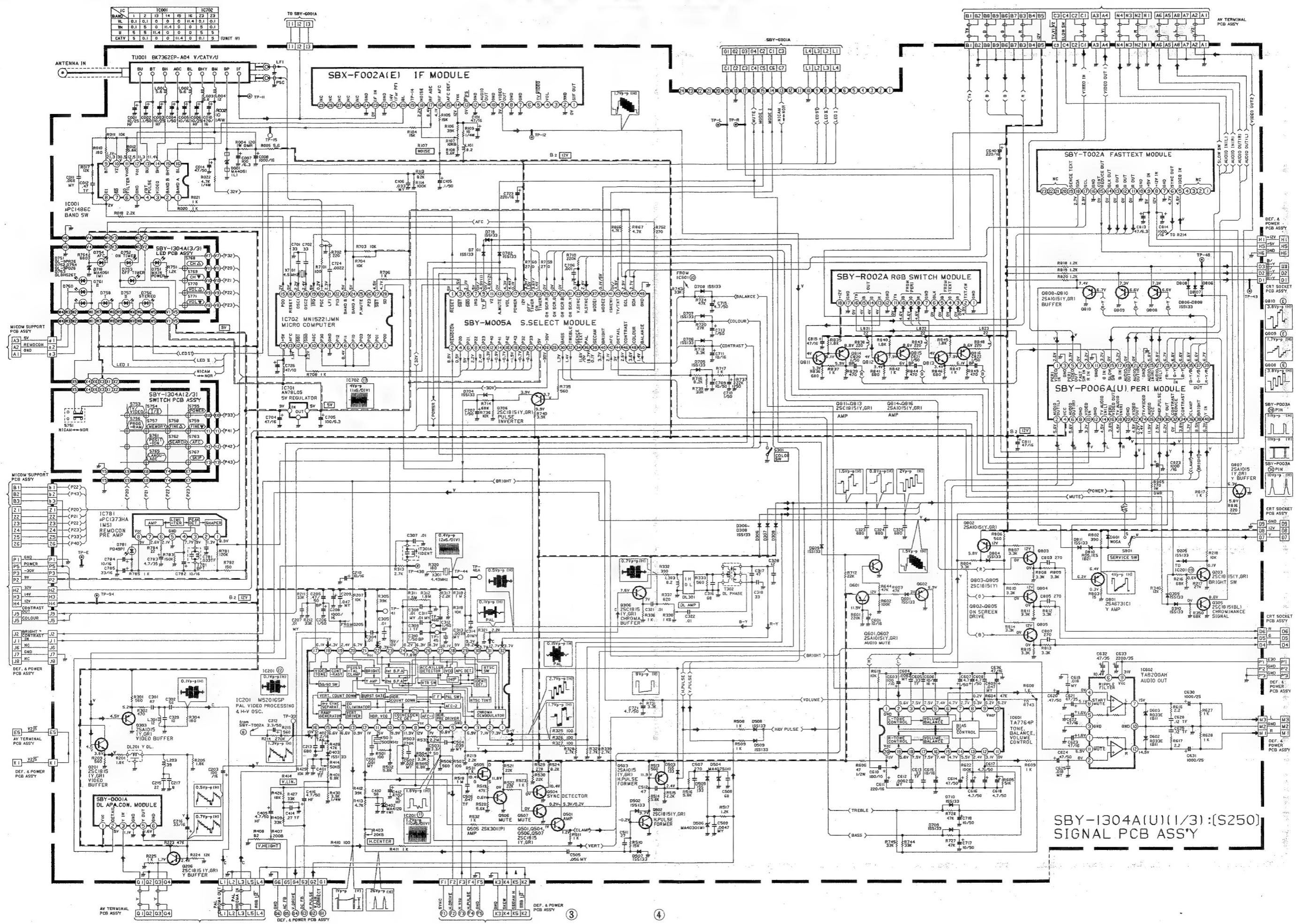
SYMBOL	SBY-M005A(U)								SBY-D001A(U)	SBY-P006A(U)	IC201	IC601				Q706		
	30	32	40	44	46	48	50	2				34	38	25	7	12	13	B
MODE	⑤	⑥	②	④	③	①	⑦	④	⑧	②	⑧	⑦	⑤	⑥	②	②	②	②
VOLTAGE	0.1	0.1	0	0.3	0.6	0.3	0.1	2.4	2.1	5.2	5.7	0.1	1.2	0.1	0	0.6	11.9	
	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
	4.6	4.2	7.9	6.7	6.5	6	4.6	8	6.3	7.4	6.9	4.7	4.8	4.2	7.9	7.5	8.3	

*NOTICE

- MODE : ①=COLOUR, ②=BRIGHT, ③=CONTRAST, ④=DETAIL, ⑤=BASS, ⑥=TREBLE, ⑦=BALANCE
- VOLTAGE = MIN [-30] ~ MAX [+30] (ONLY 'BALANCE'=LEFT [L] ~ RIGHT [R])

SIGNAL PCB SCHEMATIC DIAGRAM

A AV-S250ENT AV-S250ENT

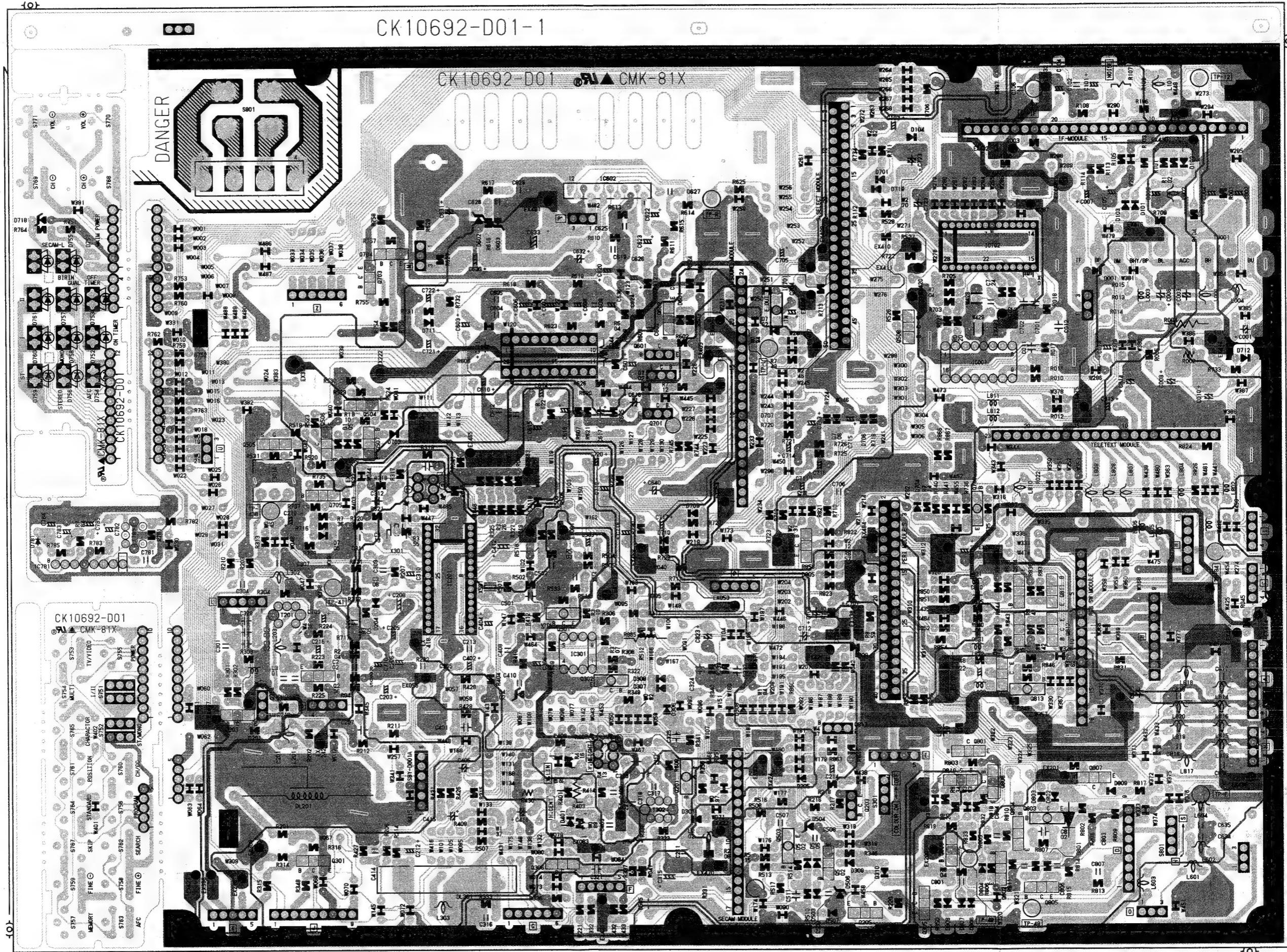


AV-S250ENT AV-S250ENT

SIGNAL PCB BACK PATTERN

A AV-S250ENT AV-S250ENT **A**

FRONT



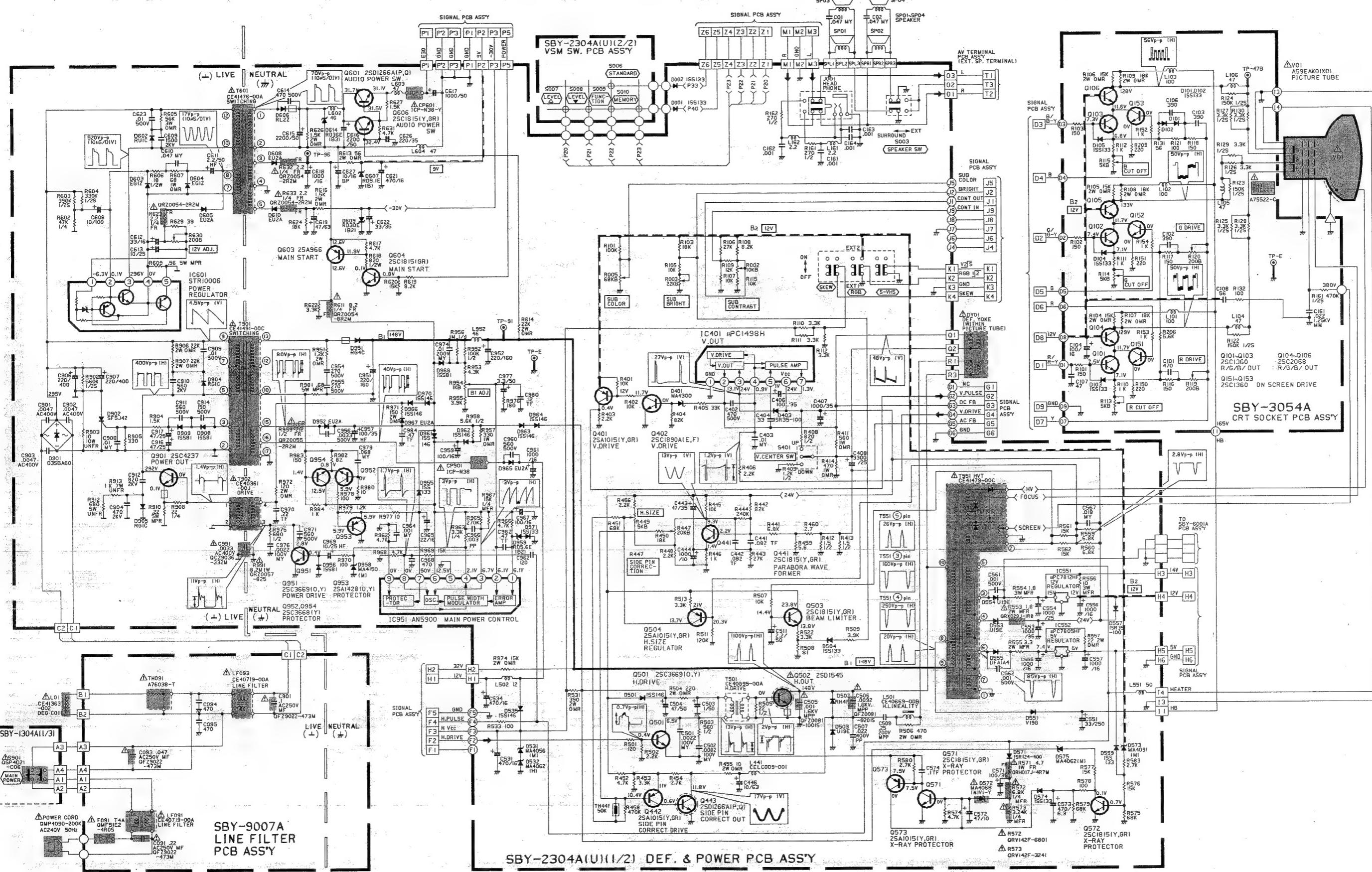
: solder side (signal etc.)

: solder side (ground)

: part side

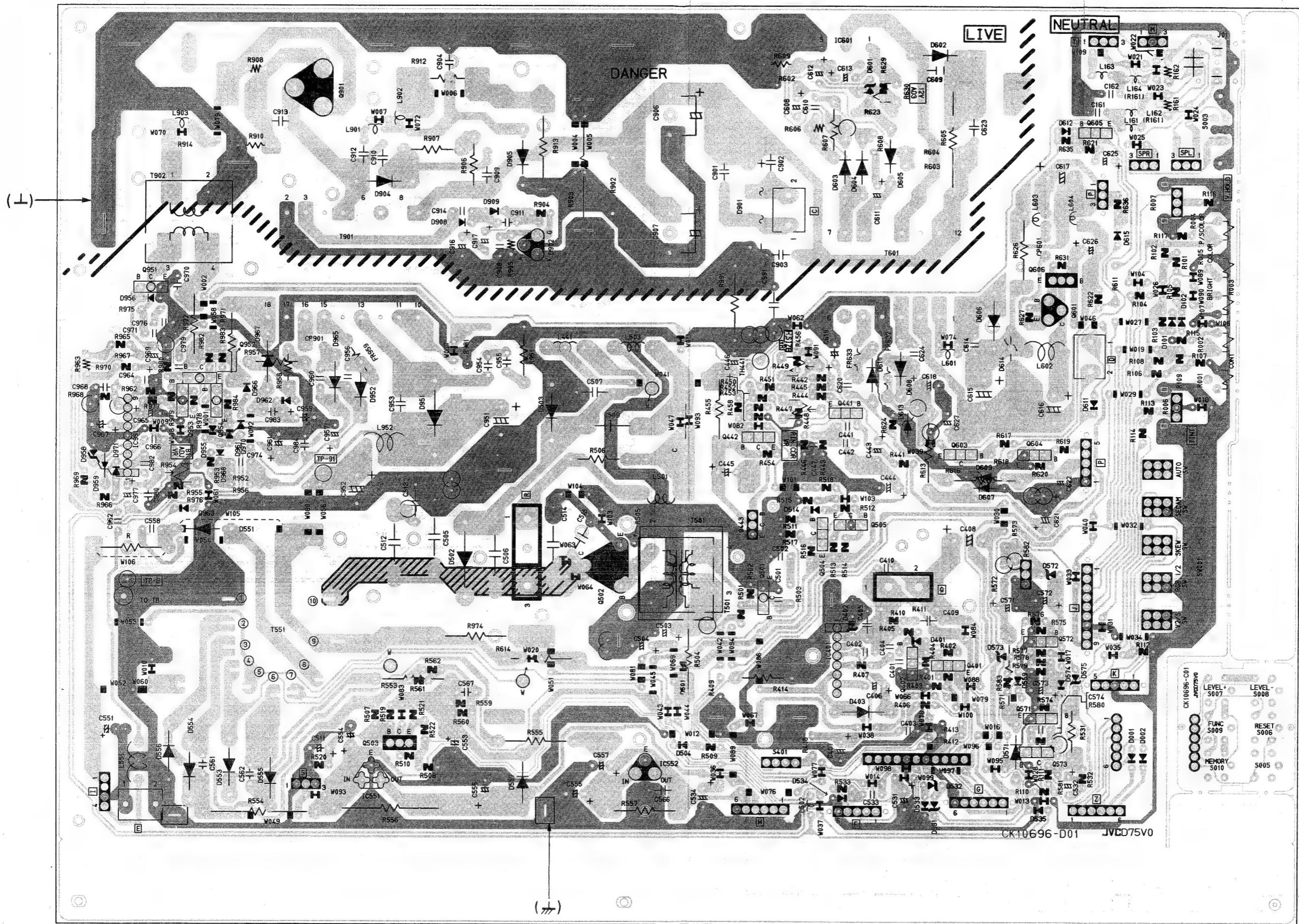
DEF & POWER PCB SCHEMATIC DIAGRAM

(A) AV-S250ENT AV-S250ENT



DEF & POWER PCB BACK PATTERN

(A) AV-S250ENT AV-S250ENT (A)

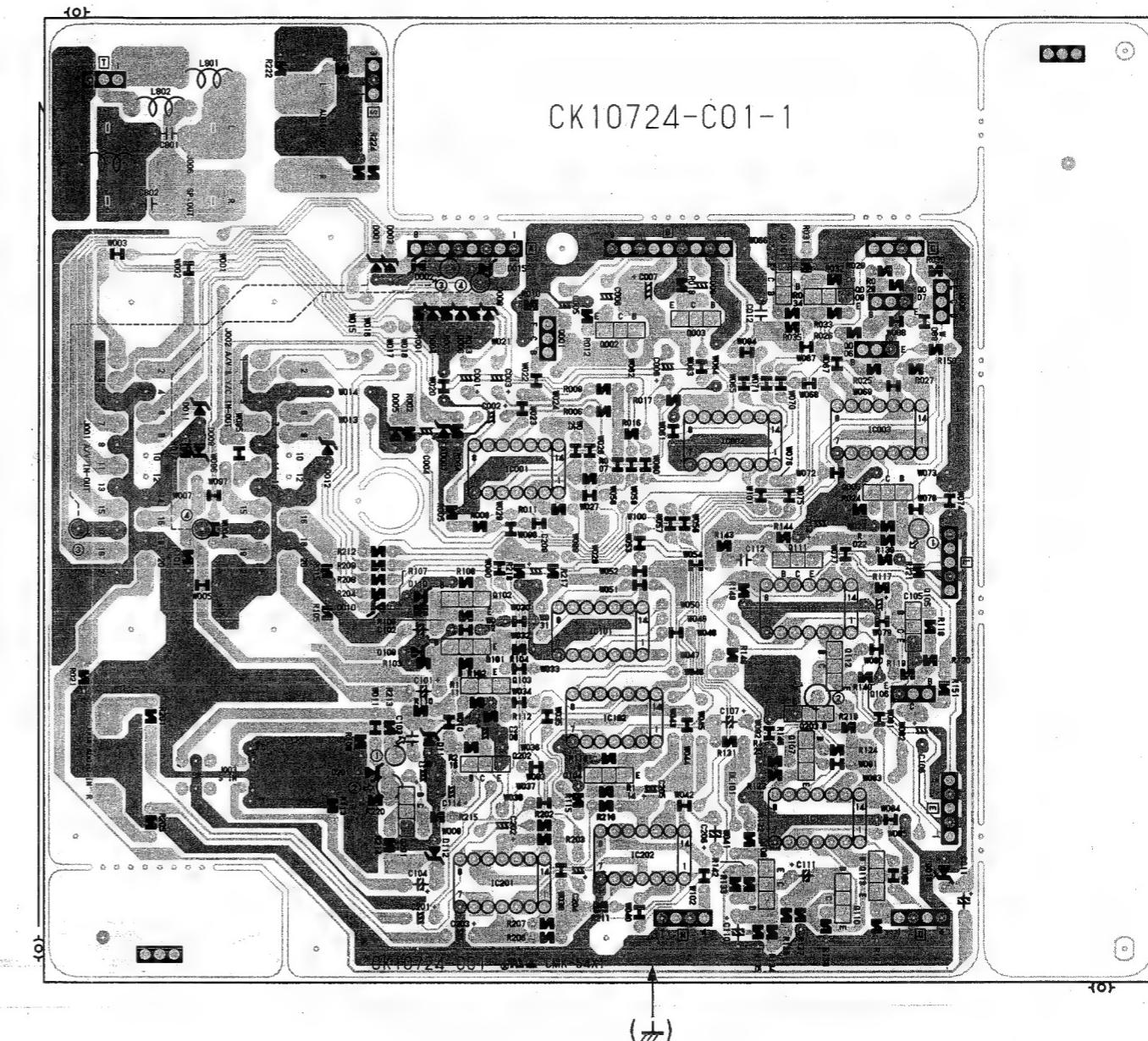
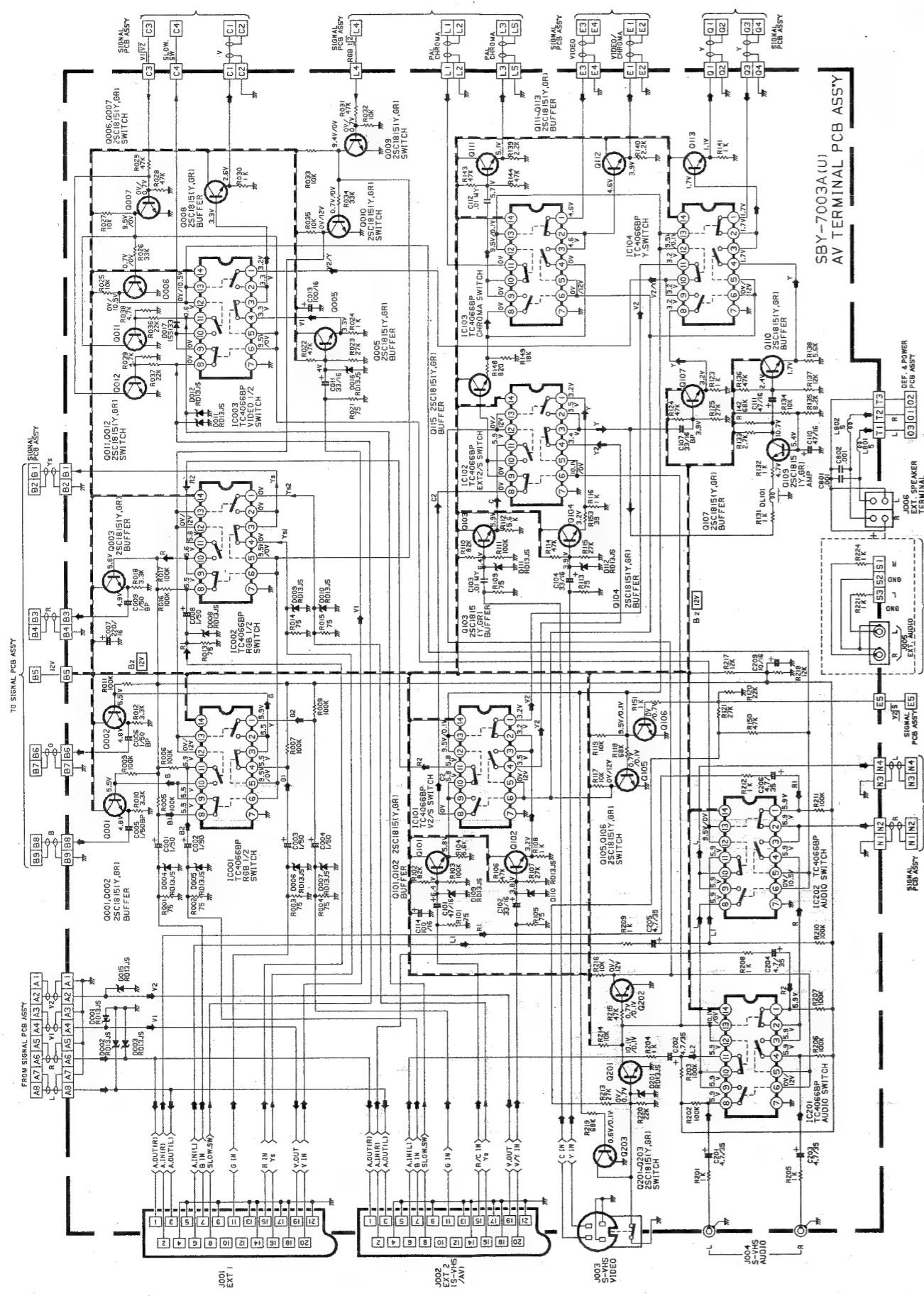


A/V TERMINAL PCB SCHEMATIC DIAGRAM

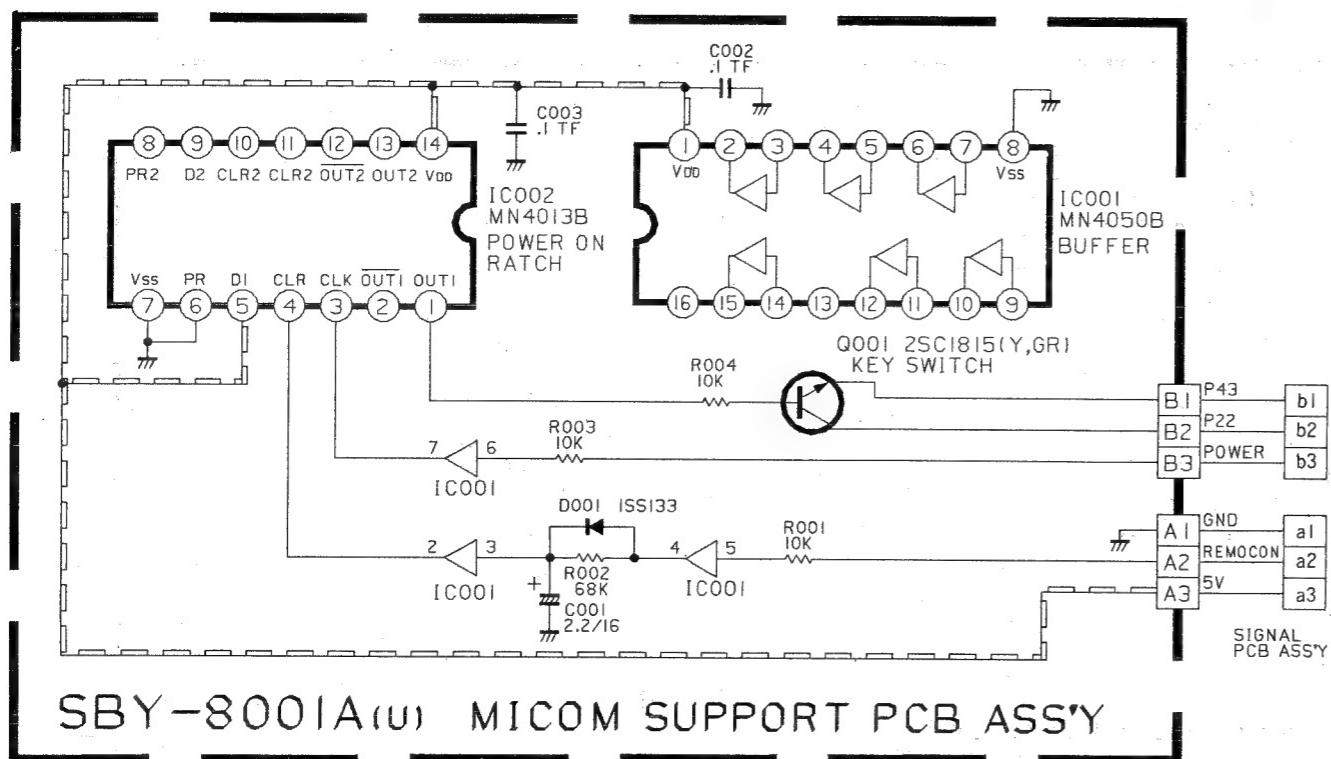
(A) AV-S250ENT AV-S250ENT (A)

A/V TERMINAL PCB BACK PATTERN

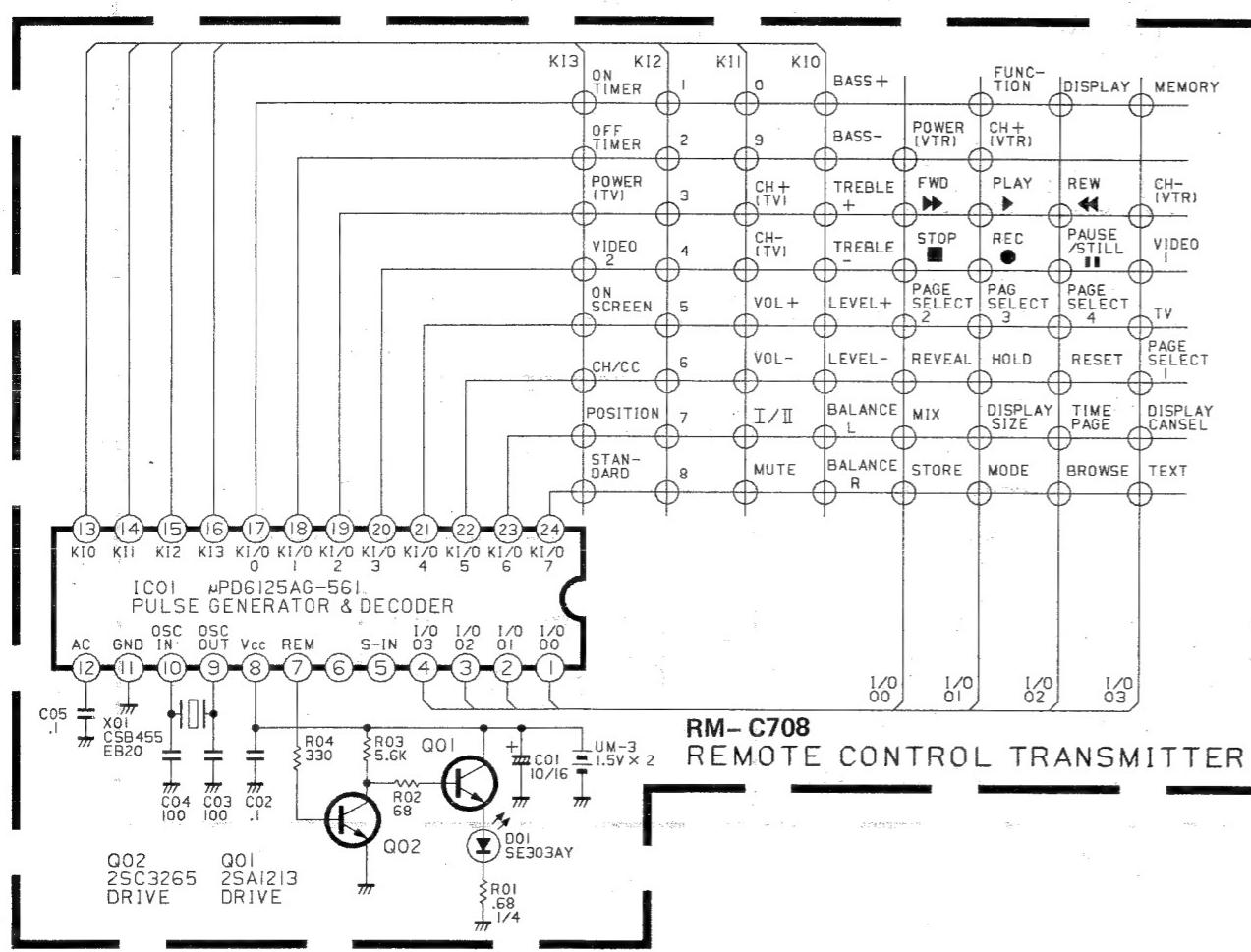
TOP



MICOM SUPPORT PCB SCHEMATIC DIAGRAM

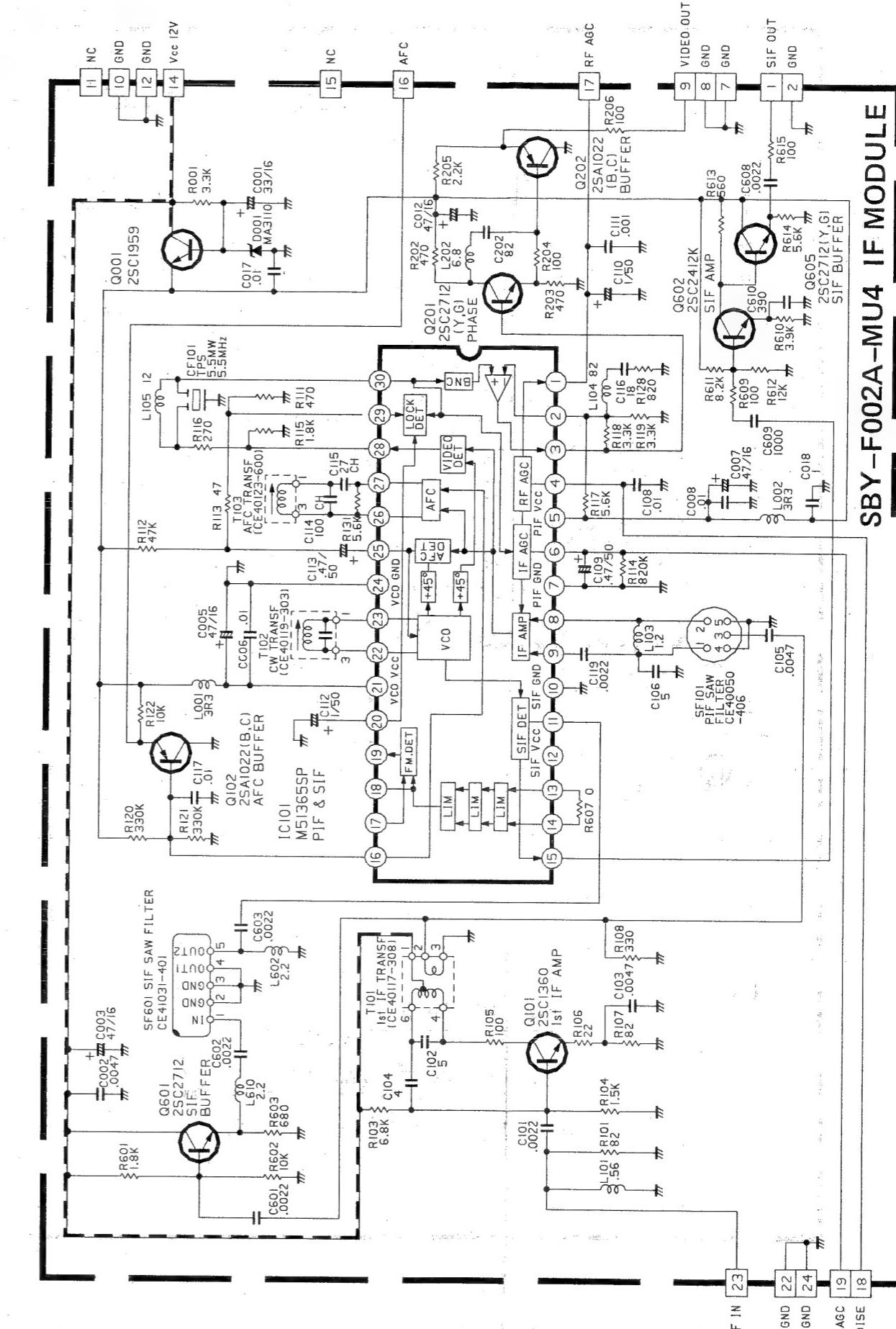


MOTE CONTROL TRANSMITTER SCHEMATIC DIAGRAM



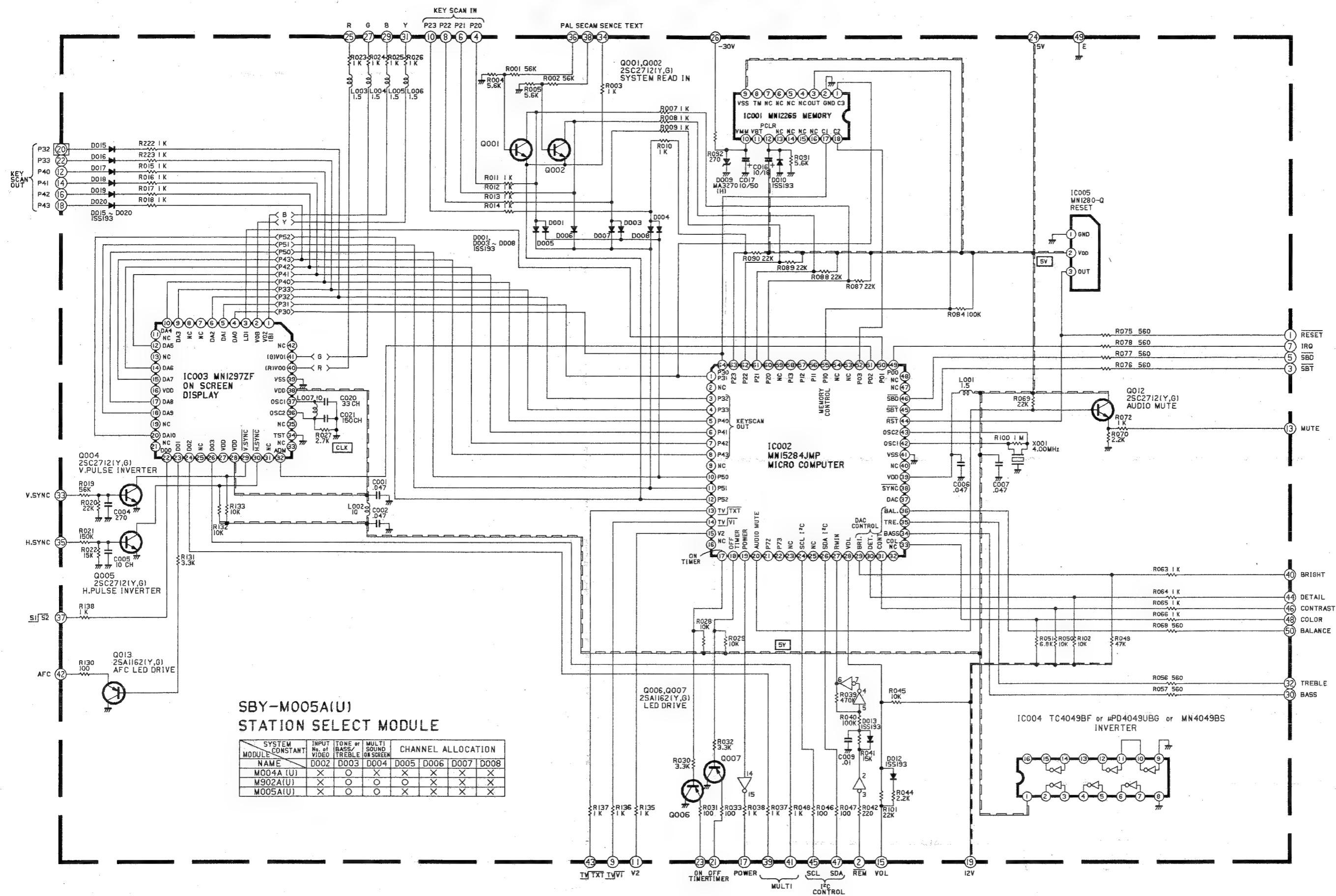
(A) AV-S250ENT AV-S250ENT

IF MODULE SCHEMATIC DIAGRAM



STATION SELECT MODULE SCHEMATIC DIAGRAM

(A) AV-S250ENT AV-S250ENT



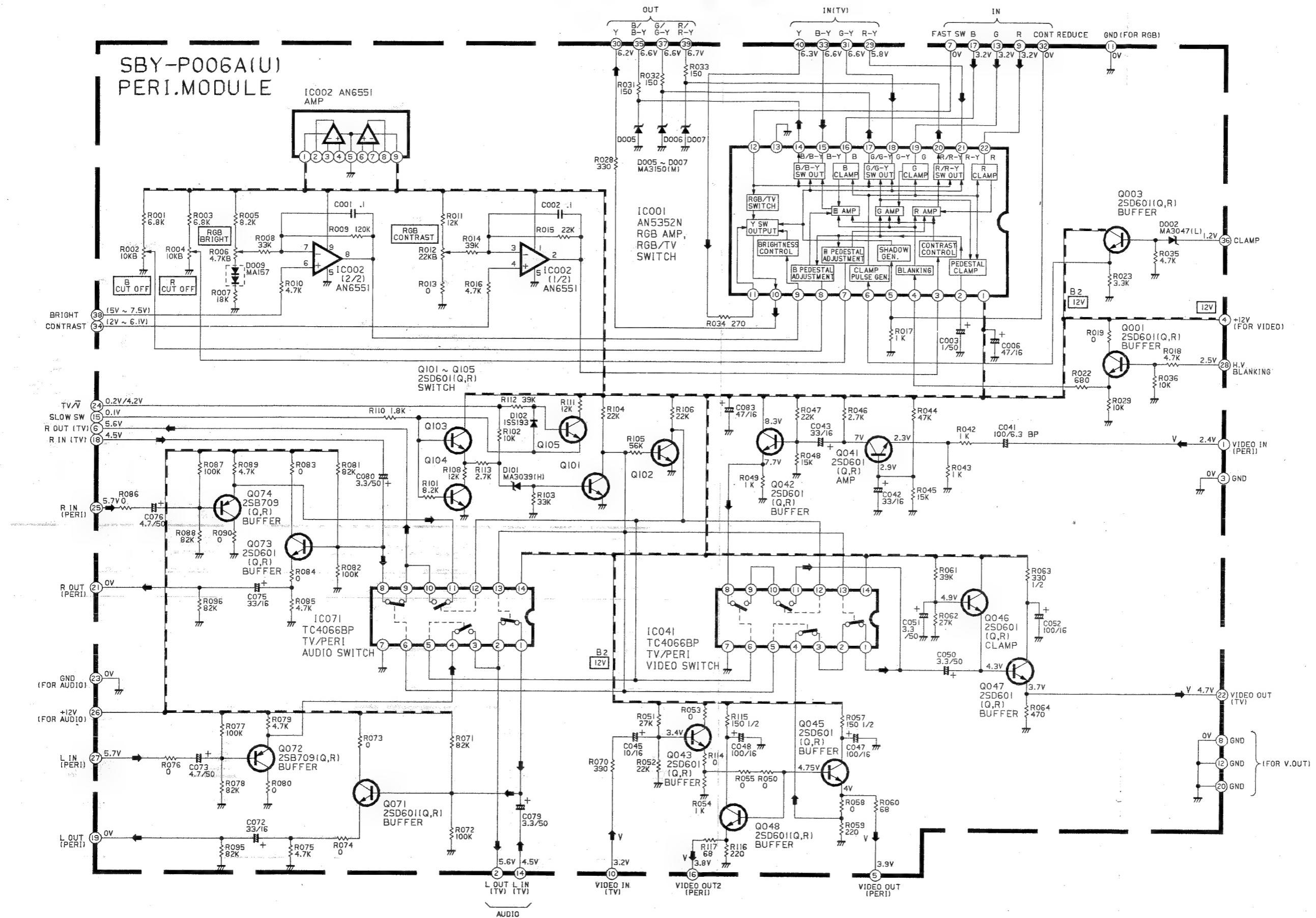
SBY-M005A(U)
STATION SELECT MODUL

MODULE	SYSTEM CONSTANT	INPUT No. OF VIDEO	TONE OR BASS/ TREBLE	MULTI- SOUND ON SCREEN	CHANNEL ALLOCATION			
					D002	D003	D004	D005
	NAME				D005	D006	D007	D008
M004A(U)		X	O	X	X	X	X	X
M902A(U)		X	O	O	O	X	X	X
M005A(U)		X	O	O	X	X	X	X

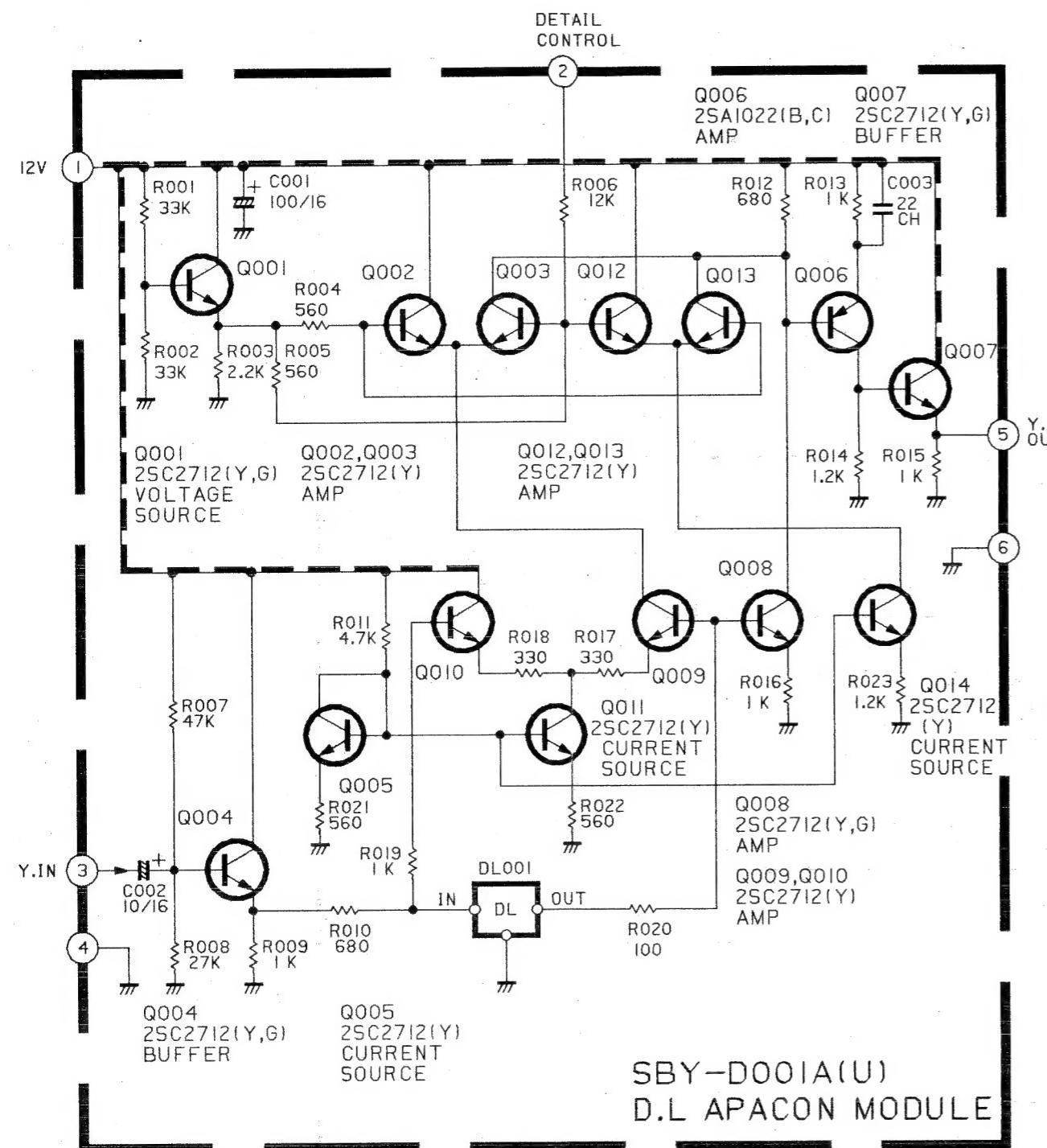
PERI MODULE SCHEMATIC DIAGRAM

(A) AV-S250ENT AV-S250ENT

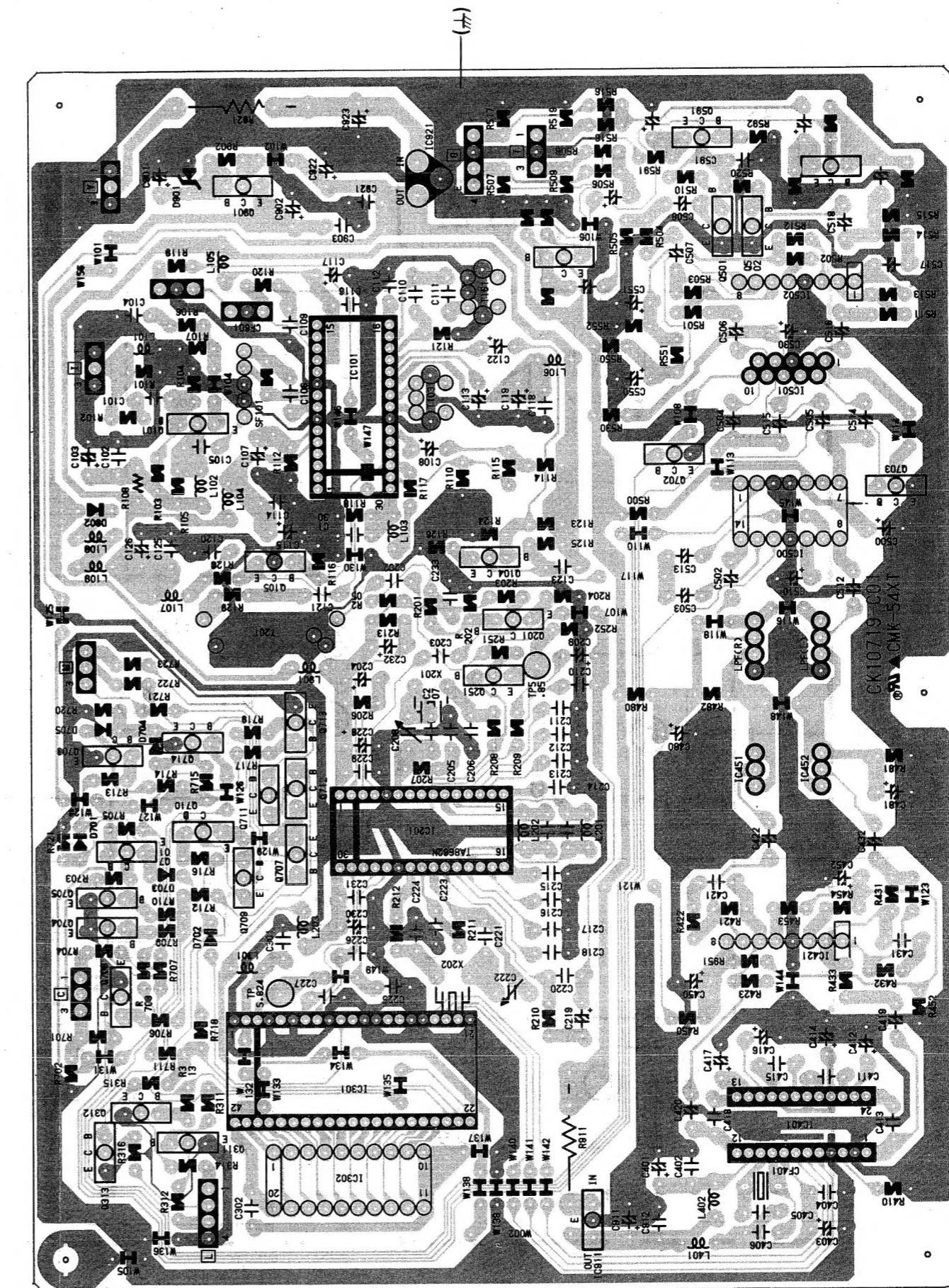
SBY-P006A(U)
PERI MODULE



D.L. APACON MODULE SCHEMATIC DIAGRAM



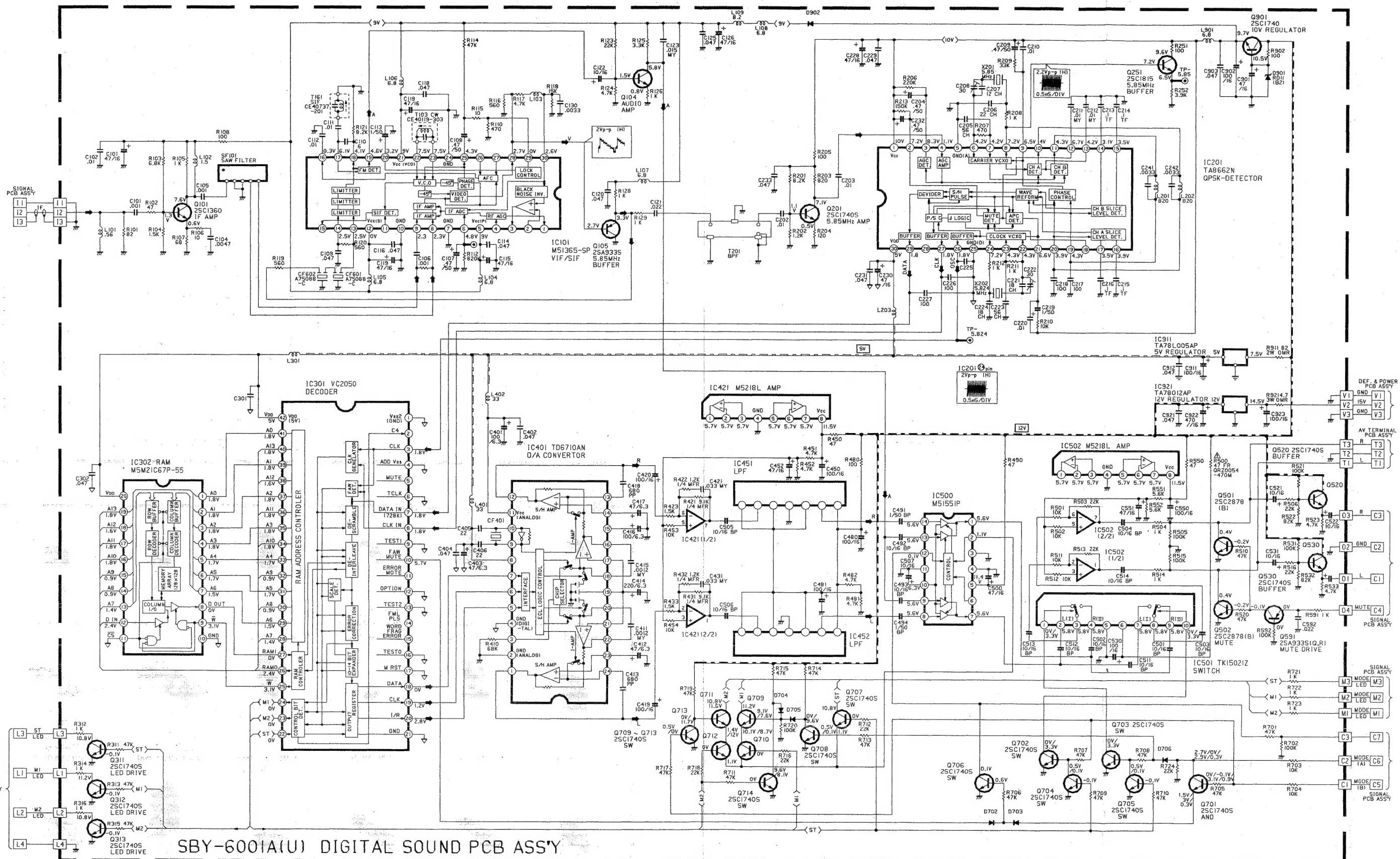
DIGITAL SOUND PCB BACK PATTERN



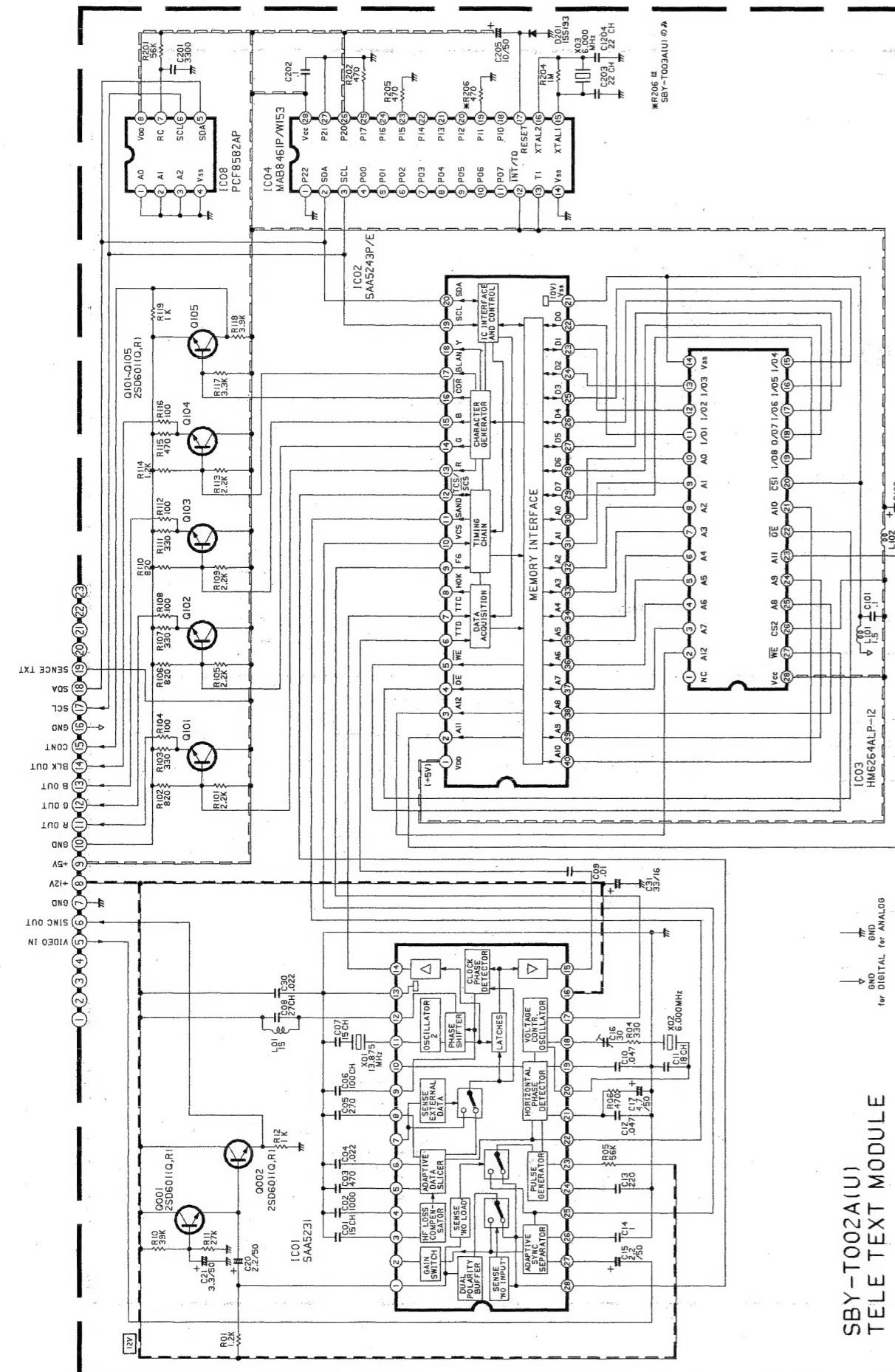
TOP

DIGITAL SOUND PC BOARD SCHEMATIC DIAGRAM

(A) AV-S250ENT AV-S250ENT (A)



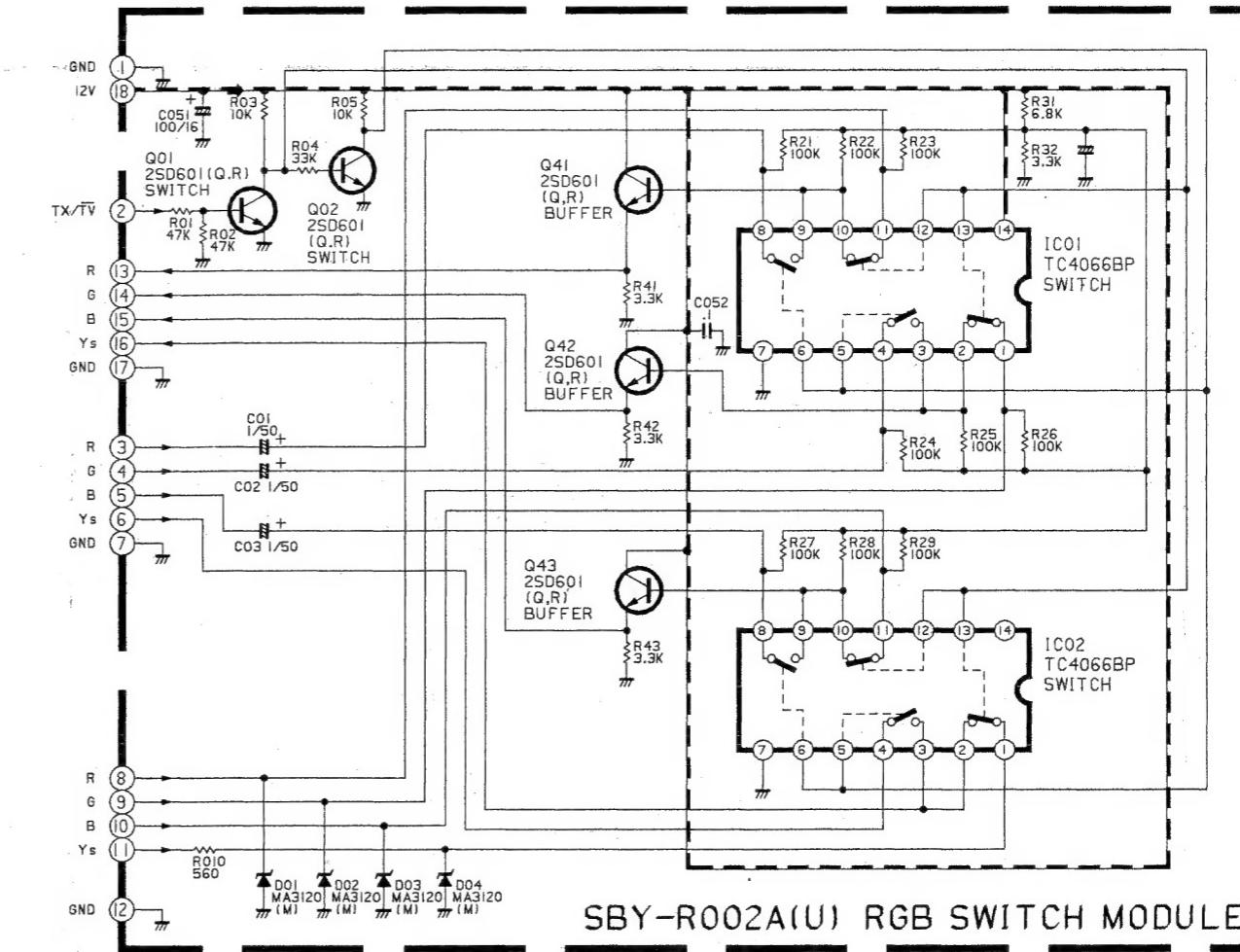
TELETEXT MODULE SCHEMATIC DIAGRAM



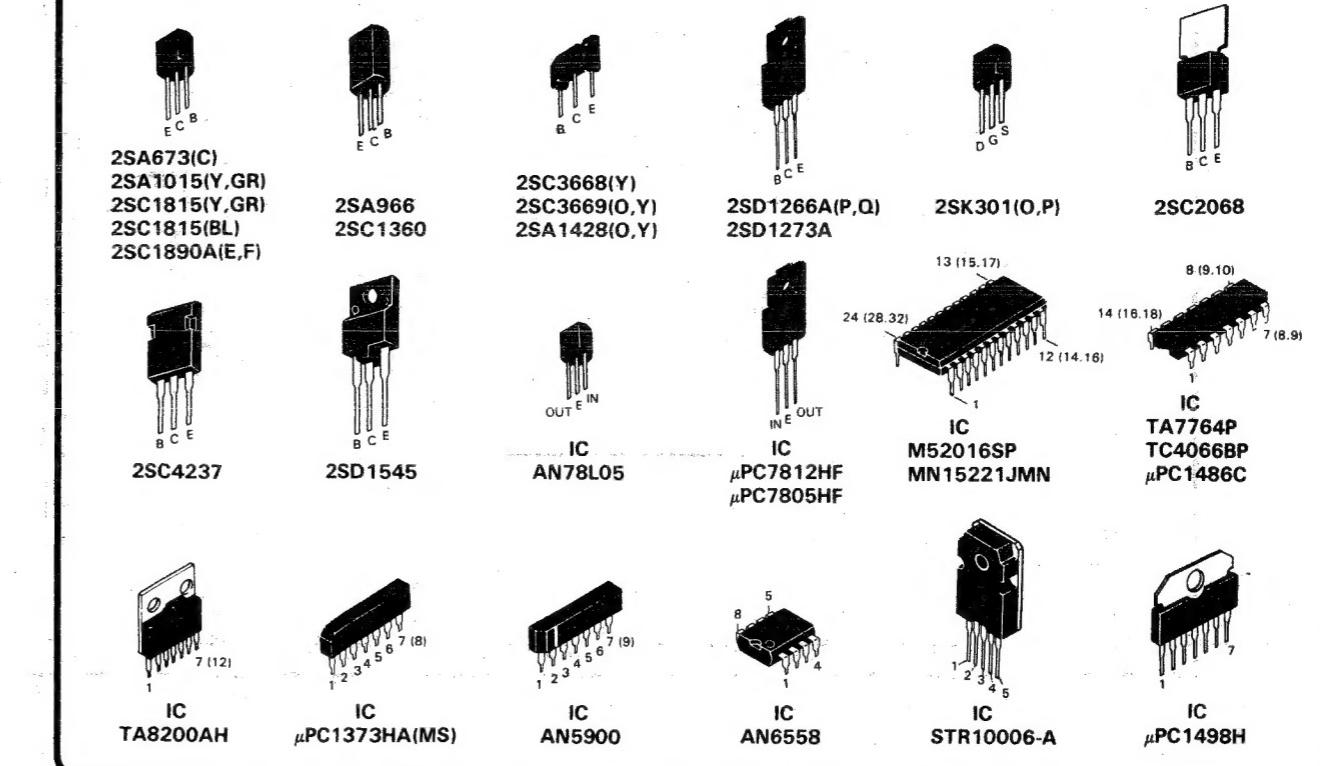
(A) AV-S250ENT

AV-S250ENT

(A) RGB SWITCH MODULES SCHEMATIC DIAGRAM



Basing of Transistor & ICs



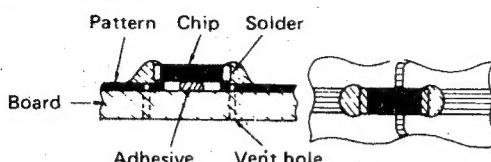
REPLACEMENT OF THE CHIP

* CHIPS ARE NOT USED ON CERTAIN MODELS. REFER TO THE DESCRIPTIONS ON THIS PAGE ONLY WHEN WORKING ON MODELS ON WHICH CHIPS ARE EMPLOYED.

* Replacement of the chip on printed circuit board can be performed easily as follows.

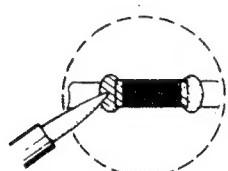
1 When mounted

[Resistor · Capacitor]

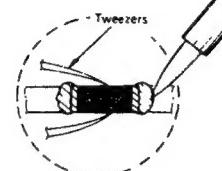


2 Removal of the chip

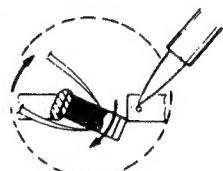
(1) Remove either of the soldered contacts.



(2) Hold the chip with tweezers and remove the other contact.



(3) Work the chip free from the adhesive with tweezers.

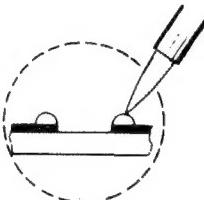


3 Preheating and soldering of chip pieces

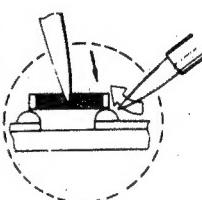
Be sure to preheat chip pieces (except the transistor) especially the capacitor before soldering with hot air, about 150°C (hair dryer or such can be used) for about 2 minutes. Then, immediately solder with an iron of about 30W.

4 Replacing the chip pieces

(1) Apply the solder to the board first.



(2) Hold the chip with tweezers and solder it in place, hold the iron at a 45° angle when soldering.



■ Discrete parts can be substitutionally mounted as shown in the figure on the right.

Mounting is also possible by passing the wires from the board front side (parts side) through the chip soldering hole (vent hole of registration part).

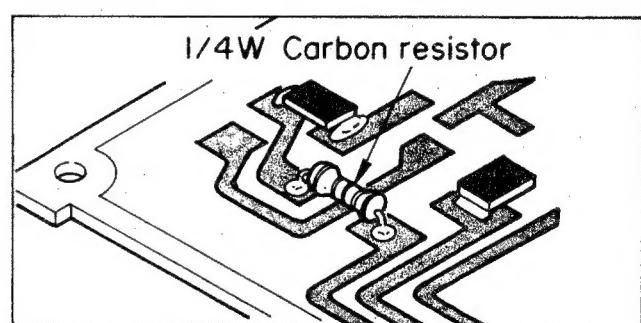
Substitute parts are as follows.

• Chip Metal Glaze Resistor

→ Carbon Resistor 1/4W ±5%

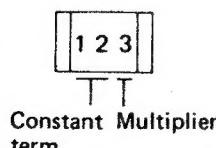
• Chip Ceramic Capacitor

→ Ceramic Capacitor 50V ±5%



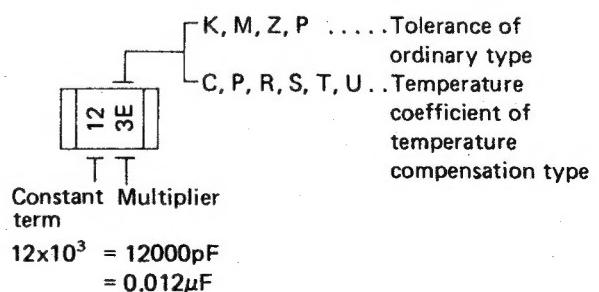
■ Decoding of chip parts constant terms

< Chip Metal Glaze Resistor >



$12 \times 10^3 = 12000\Omega$
 $= 12k\Omega$

< Chip Ceramic Capacitor >



$12 \times 10^3 = 12000pF$
 $= 0.012\mu F$